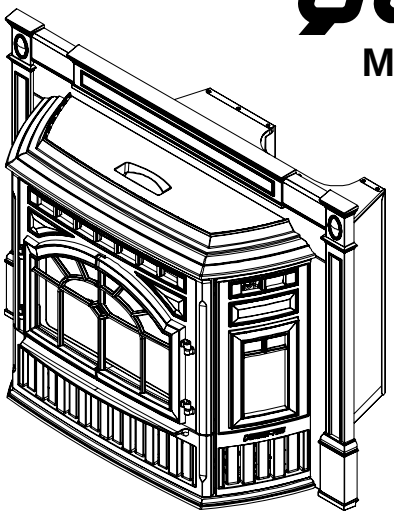
QUADRA-FIRE®



MT VERNON PELLET INSERT
ADVANCED ENERGY (AE)

Owner's Manual
Installation and Operation

Models:

MTVERNINSAE-MBK

MTVERNINSAE-PMH

MTVERNINSAE-CSB

MTVERNINSAE-CWL

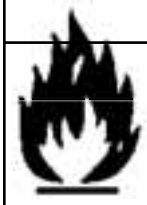
Tested and Listed by O-T-L Beaverton Oregon USA
C US
OMNI- Test Laboratories, Inc.

CAUTION

DO NOT DISCARD THIS MANUAL

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.

⚠ WARNING



Please read this entire manual before installation and use of this pellet fuel-burning room heater. Failure to follow these instructions could result in property damage, bodily injury or even death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Do not overfire - If any external part starts to glow, you are overfiring. Reduce feed rate. Overfiring will void your warranty.
- Comply with all minimum clearances to combustibles as specified. Failure to comply may cause house fire.

CAUTION

Tested and approved for wood pellets, shelled field corn, wheat and black oil sunflower seeds. Burning of any other type of fuel voids your warranty.

⚠ WARNING

HOT! DO NOT TOUCH.
SEVERE BURNS MAY RESULT.
CLOTHING IGNITION MAY RESULT.

Glass and other surfaces are hot during operation and cool down.

- Keep children away.
- CAREFULLY SUPERVISE children in same room as appliance.
- Alert children and adults to hazards of high temperatures.
- Do NOT operate with protective barriers open or removed.
- Keep clothing, furniture, draperies and other combustibles away.

CAUTION

Check building codes prior to installation.

- Installation MUST comply with local, regional, state and national codes and regulations.
- Consult local building, fire officials or authorities having jurisdiction about restrictions, installation inspection, and permits.

Congratulations

and Welcome to the Quadra-Fire Family!

Hearth & Home Technologies welcomes you to our tradition of excellence! In choosing a Quadra-Fire appliance, you have our assurance of commitment to quality, durability, and performance.

This commitment begins with our research of the market, including 'Voice of the Customer' contacts, ensuring we make products that will satisfy your needs. Our Research and Development facility then employs the world's most advanced technology to achieve the optimum operation of our stoves, inserts and fireplaces. And yet we are old-fashioned when it comes to craftsmanship. Each unit is meticulously fabricated and gold and nickel surfaces are hand-finished for lasting beauty and enjoyment. Our pledge to quality is completed as each model undergoes a quality control inspection. From design, to fabrication, to shipping: Our guarantee of quality is more than a word, it's Quadra-Fire tradition, and we proudly back this tradition with a Limited Lifetime Warranty.

We wish you and your family many years of enjoyment in the warmth and comfort of your hearth appliance. Thank you for choosing Quadra-Fire.

With warm regards,

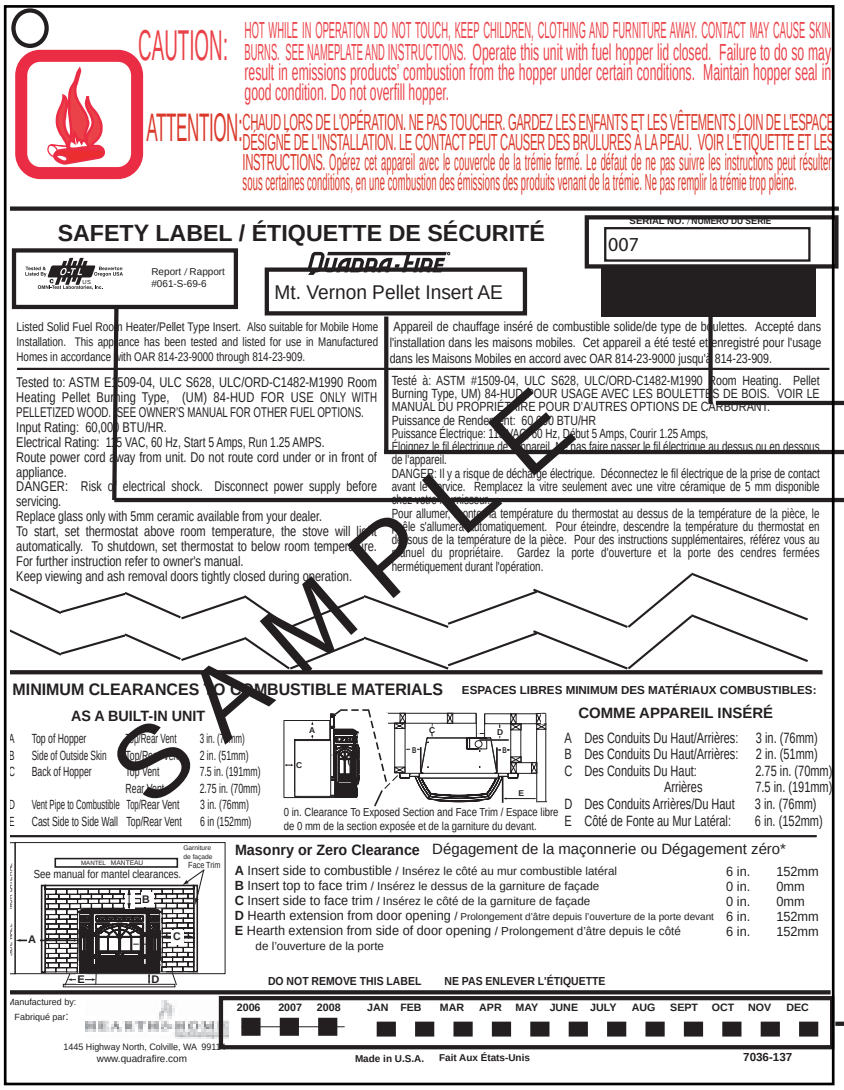
Alan Trusler
Vice President
Dealer Channel

Dan Henry
Vice President
Advanced Technolgies

Jason Olmstead
Vice President &
General Manager

Steve Tate
Quadra-Fire
Brand Manager

LABEL LOCATION: On Beaded Chain on e behind Right Side Panel


CAUTION:
HOT WHILE IN OPERATION DO NOT TOUCH, KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS. SEE NAMEPLATE AND INSTRUCTIONS. Operate this unit with fuel hopper lid closed. Failure to do so may result in emissions products' combustion from the hopper under certain conditions. Maintain hopper seal in good condition. Do not overfill hopper.
ATTENTION:
CHAUD LORS DE L'OPÉRATION. NE PAS TOUCHER. GARDEZ LES ENFANTS ET LES VÊTEMENTS LOIN DE L'ESPACE DÉSIGNÉ DE L'INSTALLATION. LE CONTACT PEUT CAUSER DES BRÛLURES À LA PEAU. VOIR L'ÉTIQUETTE ET LES INSTRUCTIONS. Opérez cet appareil avec le couvercle de la trémie fermé. Le défaut de ne pas suivre les instructions peut résulter sous certaines conditions, en une combustion des émissions des produits venant de la trémie. Ne pas remplir la trémie trop pleine.
SAFETY LABEL / ÉTIQUETTE DE SÉCURITÉ
Report / Rapport #061-S-69-6
QUADRA-FIRE
Mt. Vernon Pellet Insert AE
SERIAL NO. / NUMÉRO DU SÉRIE
007
Listed Solid Fuel Room Heater/Pellet Type Insert. Also suitable for Mobile Home Installation. This appliance has been tested and listed for use in Manufactured Homes in accordance with OAR 814-23-9000 through 814-23-909.
Appareil de chauffage inséré de combustible solide/de type de boulettes. Accepté dans l'installation dans les maisons mobiles. Cet appareil a été testé et enregistré pour l'usage dans les Maisons Mobiles en accord avec OAR 814-23-9000 jusqu'à 814-23-909.
Tested to: ASTM E1509-04, ULC S628, ULC/ORD-C1482-M1990 Room Heating Pellet Burning Type, (UM) 84-HUD FOR USE ONLY WITH PELLETIZED WOOD. SEE OWNER'S MANUAL FOR OTHER FUEL OPTIONS.
Input Rating: 60,000 BTU/HR.
Electrical Rating: 115 VAC, 60 Hz, Start 5 Amps, Run 1.25 AMPS.
Route power cord away from unit. Do not route cord under or in front of appliance.
DANGER: Risk of electrical shock. Disconnect power supply before servicing.
Replace glass only with 5mm ceramic available from your dealer.
To start, set thermostat above room temperature, the stove will light automatically. To shutdown, set thermostat to below room temperature.
For further instruction refer to owner's manual.
Keep viewing and ash removal doors tightly closed during operation.
Testé à: ASTM #1509-04, ULC S628, ULC/ORD-C1482-M1990 Room Heating. Pellet Burning Type, UM) 84-HUD POUR USAGE AVEC LES BOULETTES DE BOIS. VOIR LE MANUAL DU PROPRIÉTAIRE POUR D'AUTRES OPTIONS DE CARBURANT.
Puissance de Rendement: 60,000 BTU/HR
Puissance Électrique: 115 VAC, 60 Hz, Début 5 Amps, Courir 1.25 Amps,
Éloignez le fil électrique de l'appareil. Ne pas faire passer le fil électrique au dessus ou en dessous de l'appareil.
DANGER: Il y a risque de décharge électrique. Déconnectez le fil électrique de la prise de contact avant le service. Remplacez la vitre seulement avec une vitre céramique de 5 mm disponible chez votre fournisseur.
Pour allumer, fixez la température du thermostat au dessus de la température de la pièce, le poêle s'allumera automatiquement. Pour éteindre, descendre la température du thermostat en dessous de la température de la pièce. Pour des instructions supplémentaires, référez vous au manuel du propriétaire. Gardez la porte d'ouverture et la porte des cendres fermées hermétiquement durant l'opération.
SAMPLE
MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS
ESPACES LIBRES MINIMUM DES MATÉRIAUX COMBUSTIBLES:
AS A BUILT-IN UNIT
A Top of Hopper Top/Rear Vent 3 in. (76mm)
B Side of Outside Skin Top/Rear Vent 2 in. (51mm)
C Back of Hopper Top Vent 7.5 in. (191mm)
Rear Vent 2.75 in. (70mm)
D Vent Pipe to Combustible Top/Rear Vent 3 in. (76mm)
E Cast Side to Side Wall Top/Rear Vent 6 in (152mm)
0 in. Clearance To Exposed Section and Face Trim / Espace libre de 0 mm de la section exposée et de la garniture du devant.
COMME APPAREIL INSÉRÉ
A Des Conduits Du Haut/Arrières: 3 in. (76mm)
B Des Conduits Du Haut/Arrières: 2 in. (51mm)
C Des Conduits Du Haut: 2.75 in. (70mm)
Arrières 7.5 in. (191mm)
D Des Conduits Arrières/Du Haut 3 in. (76mm)
E Côté de Fonte au Mur Latéral: 6 in. (152mm)
MANTEL MANTEAU
See manual for mantel clearances.
Garniture de façade Face Trim
Masonry or Zero Clearance Dégagement de la maçonnerie ou Dégagement zéro*
A Insert side to combustible / Insérez le côté au mur combustible latéral 6 in. 152mm
B Insert top to face trim / Insérez le dessus de la garniture de façade 0 in. 0mm
C Insert side to face trim / Insérez le côté de la garniture de façade 0 in. 0mm
D Hearth extension from door opening / Prolongement d'âtre depuis l'ouverture de la porte devant 6 in. 152mm
E Hearth extension from side of door opening / Prolongement d'âtre depuis le côté de l'ouverture de la porte 6 in. 152mm
DO NOT REMOVE THIS LABEL NE PAS ENLEVER L'ÉTIQUETTE
Manufactured by:
Fabriqué par:
HEARTH-HOME
1445 Highway North, Colville, WA 9914
www.quadrafire.com
2006 2007 2008 JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC
Made in U.S.A. Fait Aux États-Unis 7036-137

Serial Number

Model Name

Test Lab & Report No.

Mfg Dates

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1 Listing and Code Approvals

A. Appliance Certification

MODEL:	Mt. Vernon Pellet Insert
LABORATORY:	OMNI Test Laboratories, Inc
REPORT NO.	061-S-69-6
TYPE:	Solid Fuel Room Heater/Pellet Type Insert
STANDARD:	ASTM E1509, ULC S628 and ULC/ ORD-C1482 Room Heater Pellet Fuel Burning Type and (UM) 84-HUD, Mobile Home Approved
FCC	Complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

B. Mobile Home Approved

This appliance is approved for mobile home installations when not installed in a sleeping room and when an outside combustion air inlet is provided. The structural integrity of the mobile home floor, ceiling, and walls must be maintained. The appliance must be properly grounded to the frame of the mobile home and use only listed pellet vent, Class “L” or “PL” connector pipe. A Quadra-Fire Outside Air Kit must be installed in a mobile home installation.

C. Glass Specifications

This appliance is equipped with 5mm ceramic glass. Replace glass only with 5mm ceramic glass. Please contact your dealer for replacement glass.

NOTE: This installation must conform with local codes. In the absence of local codes you must comply with the **ASTM E1509, (UM) 84-HUD, ULC/ORD-C-1482**

D. Electrical Rating

115 VAC, 60 Hz, Start 5 Amps, Run 1.25 Amps

E. BTU & Efficiency Specifications

Emissions Rating:	EPA Compliant
***BTU Input:**	14,620 - 60,200
Efficiency:	81.4% - 83.6&
Heating Capacity:	2,400 - 3,800 square feet
Hopper Capacity:	56 lbs
Fuel:	Pellets, Shelled Field Corn, Wheat & Black Oil Sunflower Seeds
Shipping Weight:	425 lbs.

*BTU output will vary, depending on the brand of fuel you use in your appliance. Consult your Quadra-Fire dealer for best results.

NOTE: Hearth & Home Technologies, manufacturer of this appliance, reserves the right to alter its products, their specifications and/or price without notice.

2 Getting Started

A. Design, Installation & Location Considerations

1. Appliance Location

Consideration must be given to safety, convenience, traffic flow, and the fact that the appliance will need a chimney and chimney connector. It is a good idea to plan your installation on paper, using exact measurements for clearances and floor protection, before actually beginning the installation. If you are not using an existing chimney, place the appliance where there will be a clear passage for a factory-built listed chimney through the outside wall or ceiling and roof.

Check with your local building code agency before you begin your installation. Be sure local building codes do not supersede UL specifications and always obtain a building permit so that insurance protection benefits cannot be unexpectedly cancelled. If any assistance is required during installation, please contact your local dealer.

We recommend that a qualified building inspector and your insurance company representative review your plans before and after installation.

2. Thermostat Wall Control

The thermostat wall control's location will have some effect on the appliance's operation. When the thermostat wall control is located close to the appliance, it may require a slightly higher temperature setting to keep the rest of the house comfortable. If the thermostat wall control location is in an adjacent room or on a different floor level, you will notice higher temperatures near the appliance. **The wall control is an integral part of the appliance. No other wall control or thermostat can be substituted.**

B. Fire Safety

Maintain the designated clearances to combustibles. Insulation must not touch the chimney. You must maintain the designated air space clearance around the chimney. This space around a chimney is necessary to allow natural heat removal from the area. Insulation in this space will cause a heat buildup, which may ignite wood framing. **NOTE: Clearances may only be reduced by means approved by the regulatory authority having jurisdiction.**

To provide reasonable fire safety, the following should be given serious consideration:

1. Install at least one smoke detector on each floor of your home to ensure your safety. They should be located away from the heating appliance and close to the sleeping areas. Follow the smoke detector manufacturer's placement and installation instructions, and be sure to maintain regularly.
2. A conveniently located Class A fire extinguisher to contend with small fires resulting from burning embers.
3. A practiced evacuation plan, consisting of at least 2 escape routes.
4. A plan to deal with a hopper fire as follows:

   In the event of a hopper fire:

   a. Unplug the appliance.
   b. Notify fire department.
   c. Prepare occupants for immediate evacuation.
   dt. While awaiting fire department, watch for ignition of adjacent combustibles from overheated vent pipe, hot embers or sparks from the chimney.
   e. Pour a bucket of water into the appliance hopper.

⚠ CAUTION

- Do NOT connect this unit to a chimney flue servicing another appliance.
- Do NOT connect to any air distribution duct or system.

⚠ WARNING

Fire Risk.

- Do not operate appliance before reading and understanding operating instructions. Failure to operate appliance properly may cause a house fire.

C. Tools And Supplies Needed

Tools and building supplies normally required for installation, unless installing into an existing masonry fireplace:

Reciprocating Saw	Safety Glasses
Hammer	Framing Square
Phillips Screwdriver	Electric Drill & Bits (1/4")
Tape Measure	1/4" Self-Tapping Screws
Plumb Line	
Level	<u>May also need:</u>
Framing Material	Vent Support Straps
Hi-temp Caulking Material	Venting Paint
Gloves	

D. Measuring Standards

1. Pipe measurements are from center line to center line.
2. Vertical terminations are measured to top of pipe.

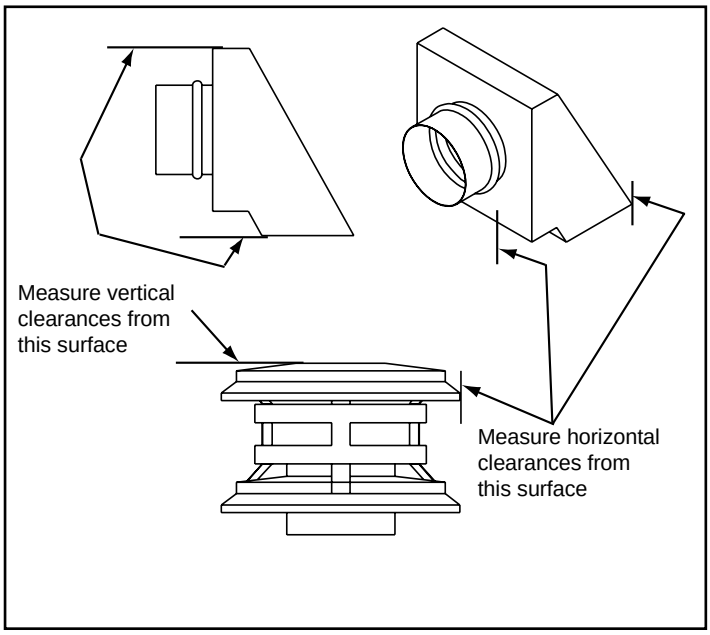


Figure 6.1

WARNING

Inspect appliance and components for damage. Damaged parts may impair safe operation.

- Do NOT install damaged components.
- Do NOT install incomplete components.
- Do NOT install substitute components.

Report damaged parts to dealer.

E. Inspect Appliance & Components and Pre-Use Check List

	✓	
1.		Place the appliance in a location near the final installation area and follow the procedures below:
2.		Open the appliance and remove all the parts and articles packed inside the Component Pack. Inspect all the parts and glass for shipping damage. Contact your dealer if any irregularities are noticed.
3.		All safety warnings have been read and followed.
4.		This Owner's Manual has been read.
5.		Floor protection requirements have been met.
6.		Venting is properly installed.
7.		The proper clearances from the appliance and chimney to combustible materials have been met.
8.		The masonry chimney is inspected by a professional and is clean, or the factory built metal chimney is installed according to the manufacturer's instructions and clearances.
9.		The chimney meets the required minimum height.
10.		All labels have been removed from the glass door.
11.		Plated surfaces have been wiped clean, if applicable.
12.		Thermostat Wall Control has been installed.
13.		A power outlet is available nearby.

WARNING

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance.
- Modification of the appliance.
- Installation other than as instructed by Hearth & Home Technologies.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.
- Operating appliance without fully assembling all components.
- Do NOT Overfire.

Or any such action that may cause a fire hazard.

3 Dimensions and Clearances

A. Appliance Dimensions

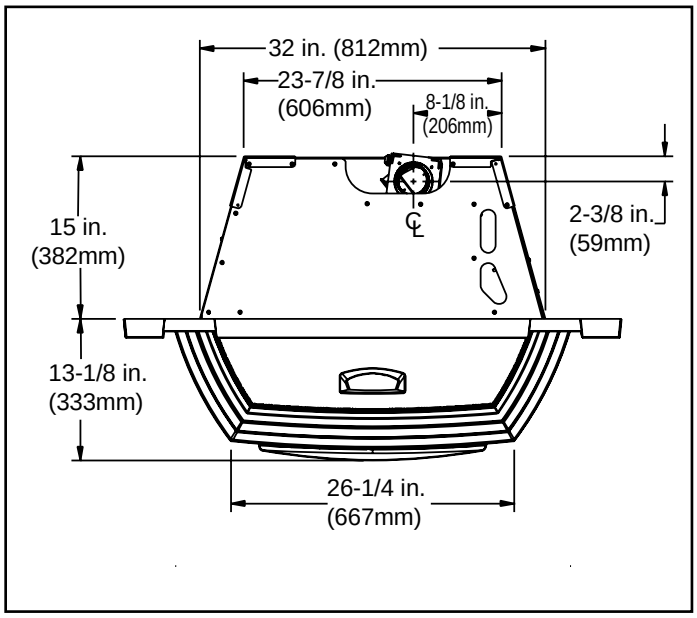


Figure 7.1 - Top View

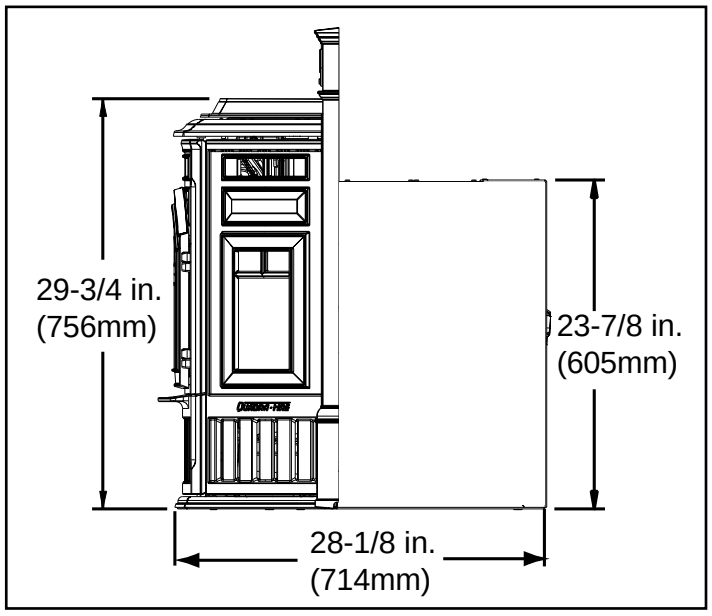


Figure 7.2 - Side View

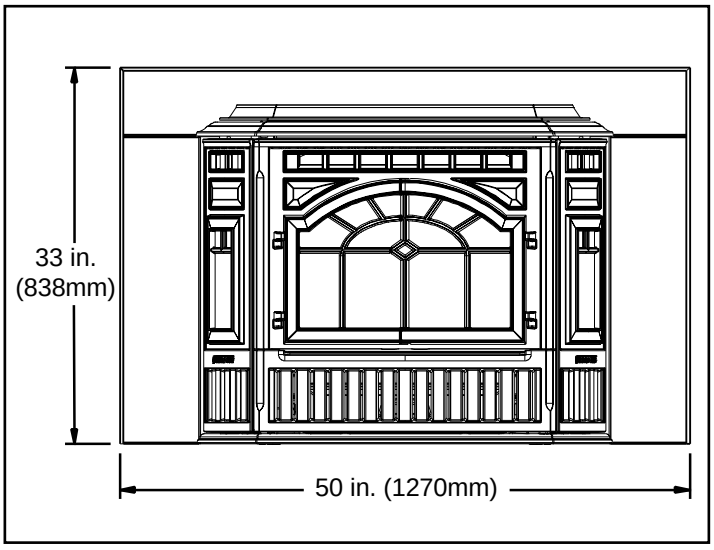


Figure 7.3 - Front View with Basic Surround Panel Set

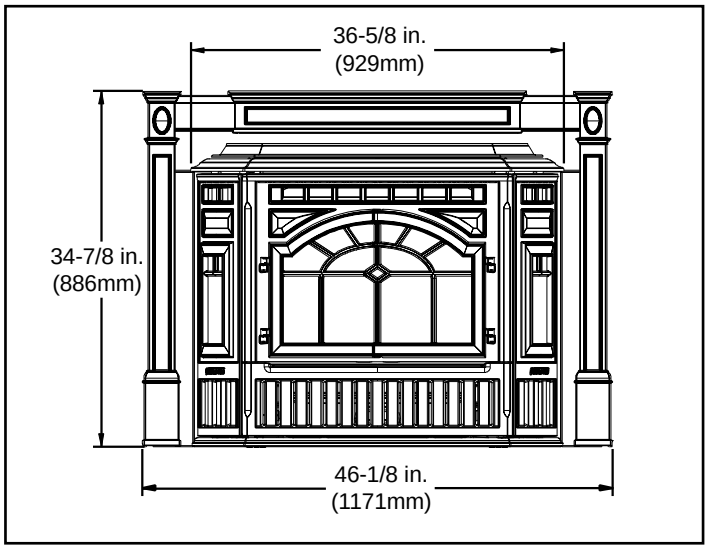


Figure 7.4 - Front View with Cast Panel Set

B. Clearance To Combustibles, UL and ULC

Built-in Unit - Rear Vent

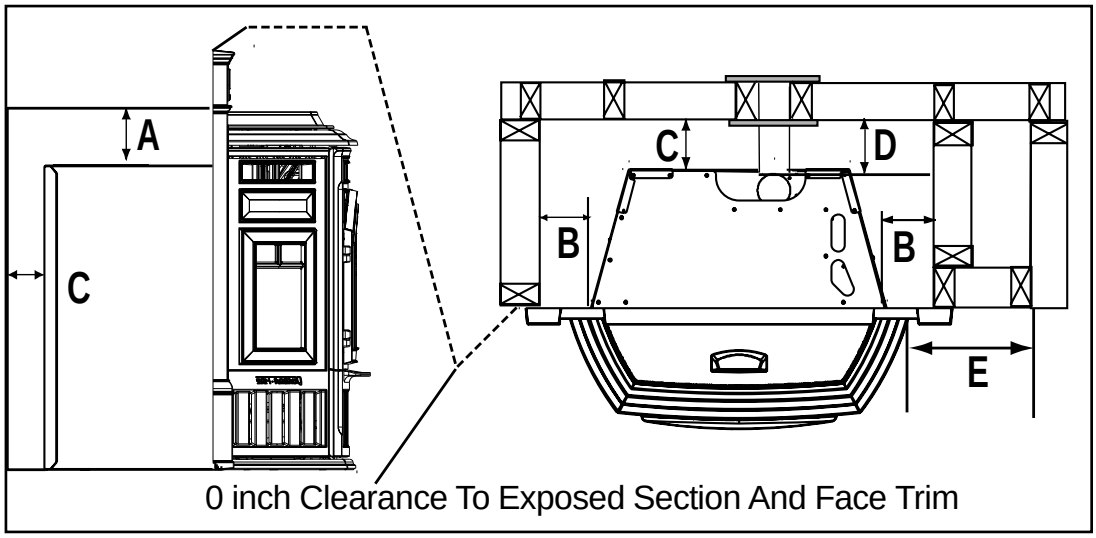


Figure 8.1

	Location	Configuration	Inches	Millimeters
A	Top of Hopper	Top or Rent Vent	3.0	76
B	Side of Outside Skin	Top or Rear Vent	2.0	51
C	Back of Hopper	Top Vent	7.50	191
		Rear Vent	2.75	70
D	Vent Pipe to Combustible	Top or Rear Vent	3.0	76
E	Cast Side to Side Wall	Top or Rear Vent	6	152

Built-in Unit - Rear Vent with Outside Air

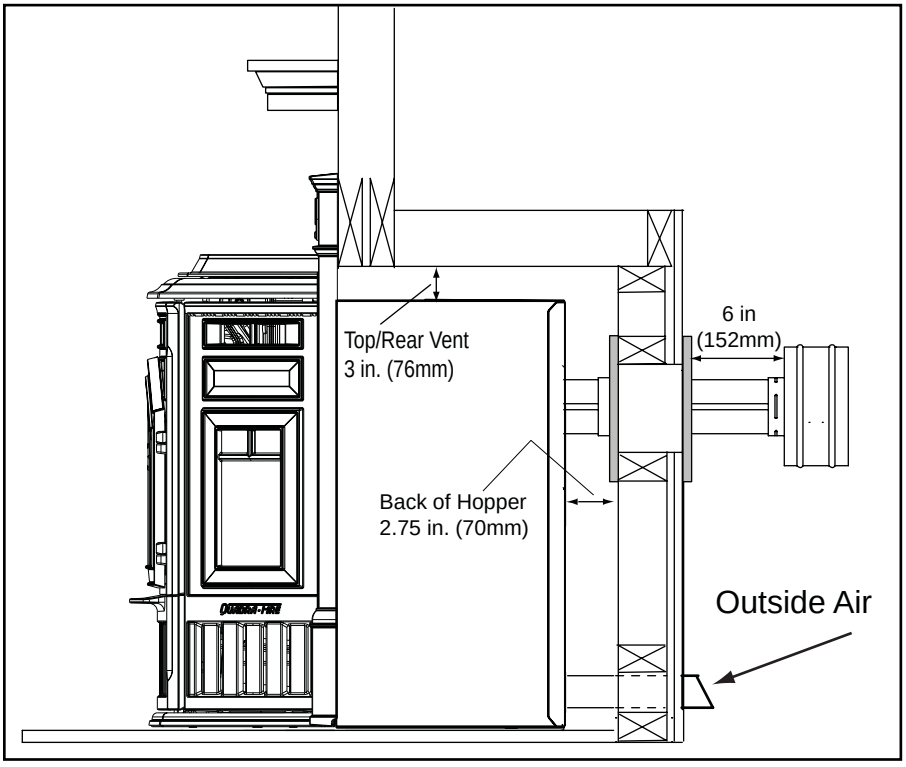


Figure 8.2

WARNING

Fire Risk.

Comply with all minimum clearances to combustibles as specified.

Failure to comply may cause house fire.

NOTE:

- Illustrations reflect typical installations and are FOR DESIGN PURPOSES ONLY.
- Illustrations/diagrams are not drawn to scale.
- Actual installation may vary due to individual design preference.

Built-In Vertical

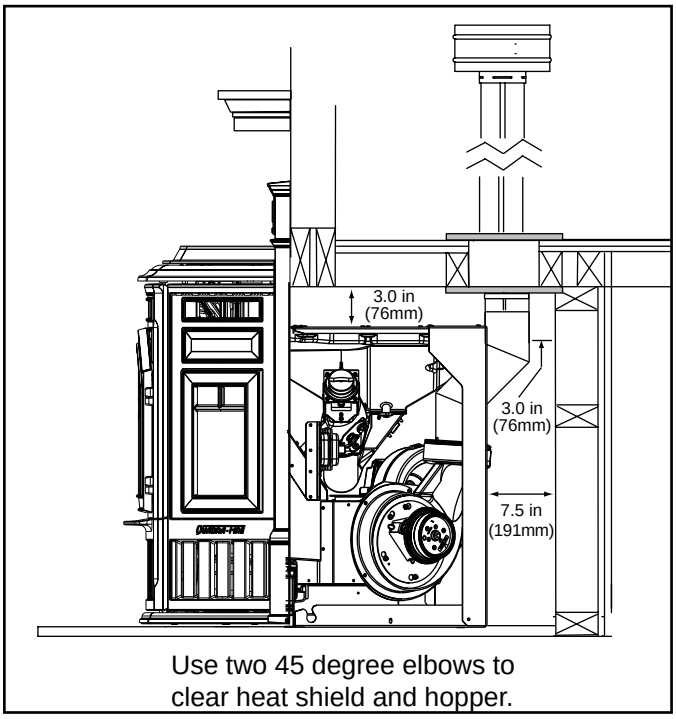


Figure 9.1

C. Masonry and Zero Clearance Fireplaces

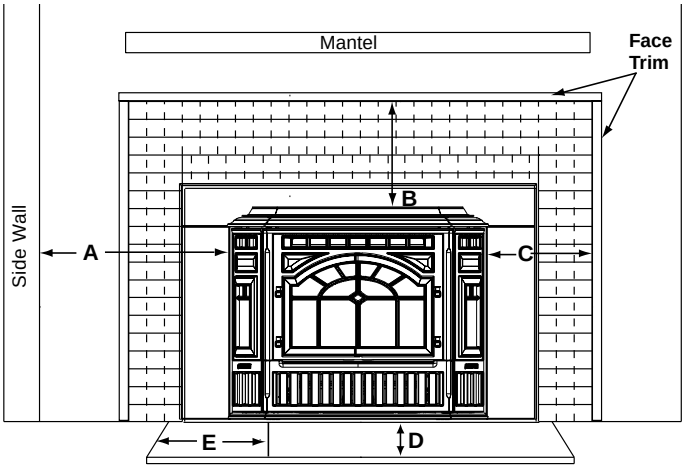


Figure 9.2

	Location	Inches	Millimeters
A	Insert side to combustible side wall	5	127
B	Insert top to max. 2-1/4 inch face trim	0	0
C	Insert side to max. 2-1/4 inch face trim	0	0

D. Floor Protection

	Location	Inches	Millimeters
D	Floor protection hearth extension from door opening	6	152
E	Floor protection to the side of door opening	6	152

E. Minimum Opening for Masonry and Zero Clearance Fireplaces

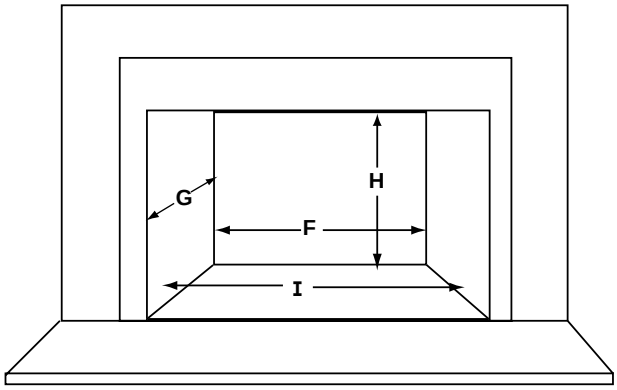


Figure 9.3

	Location	Inches	Millimeters
F	Rear Width	24	610
G	Depth	15	381
H	Height	23-7/8	606
I	Front Width	34	864

F. Mantel Projections

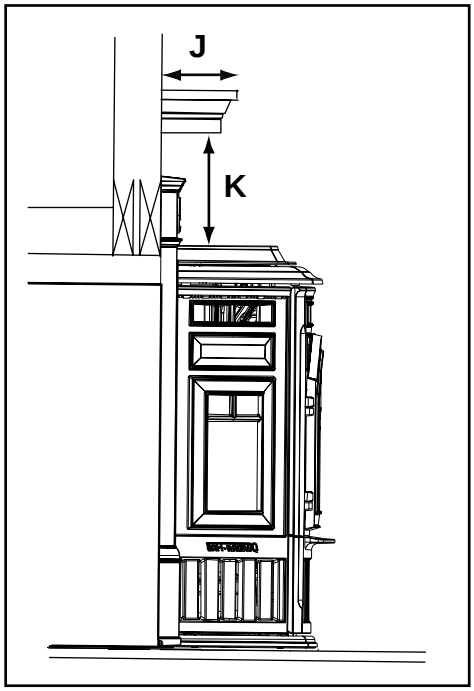


Figure 9.4

The maximum mantel depth **(J)** is 12 inches (305mm) with a minimum vertical height **(K)** of 12 inches (305mm). However if your mantel has a depth of 10 inches (254mm) then the vertical minimum height is 10 inches (254mm).

G. Removing Metal Floor of Factory-Built Firebox

- The firebrick (refractory), glass doors, screen rails, screen mesh and log grates can be removed from a factory-built firebox in order to gain minimum insert opening requirements.
- Any smoke shelves, shields and baffles may be removed from a factory-built firebox if attached with mechanical fasteners.
- The metal floor of the factory-built firebox may be removed to facilitate the installation of the insert only when a 1/4 inch airspace is provided between the insert and the floor of outer wrap.

The following is only one example as there are many different models of factory-built fireplaces.

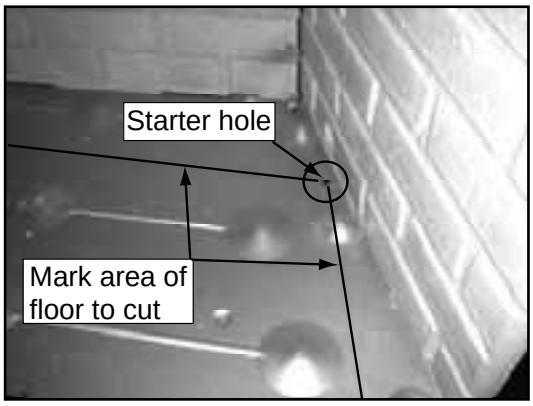


Figure 10.1. Measure and mark the metal floor for cutting. With a drill, make a starter hole in each corner.

Figure 10.2. Using a saws-all, cut out the floor

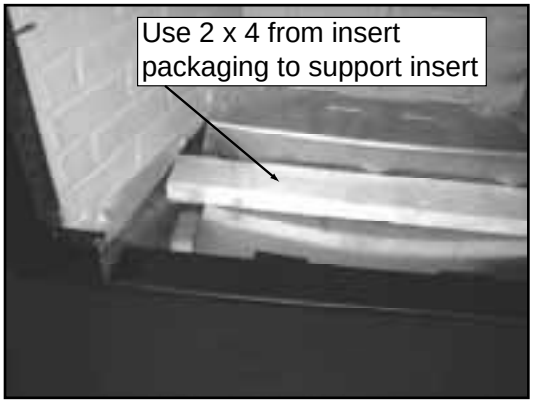


Figure 10.3. If the floor is made of thin metal, we recommend using the 2 x 4 from the insert packaging to support the insert. The 2 x 4 may need to be cut to the appropriate size.

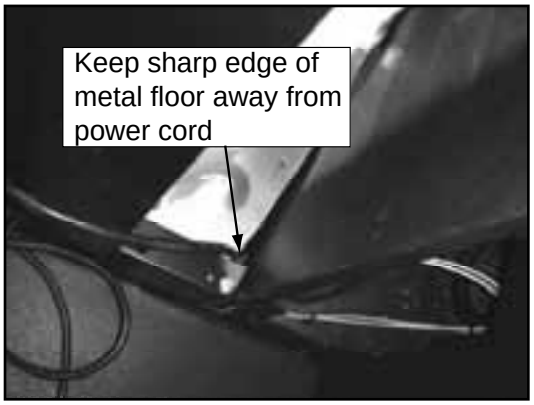


Figure 10.4. Place the insert into the factory-built firebox. Ensure that the power cord can not be damaged by the sharp metal edge. You may need to cut out a notch to accomodate the cord.

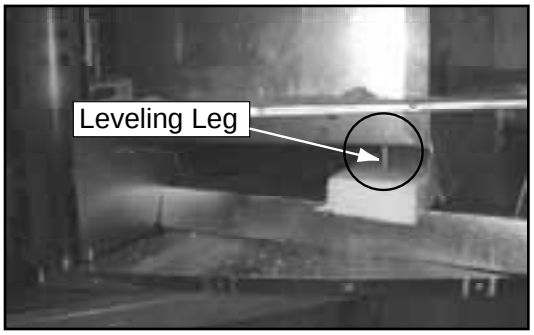


Figure 10.5. Ensure that the leveling leg is positioned over the 2 x 4 before leveling the insert.

4 Vent Information

A. Venting Termination Requirements

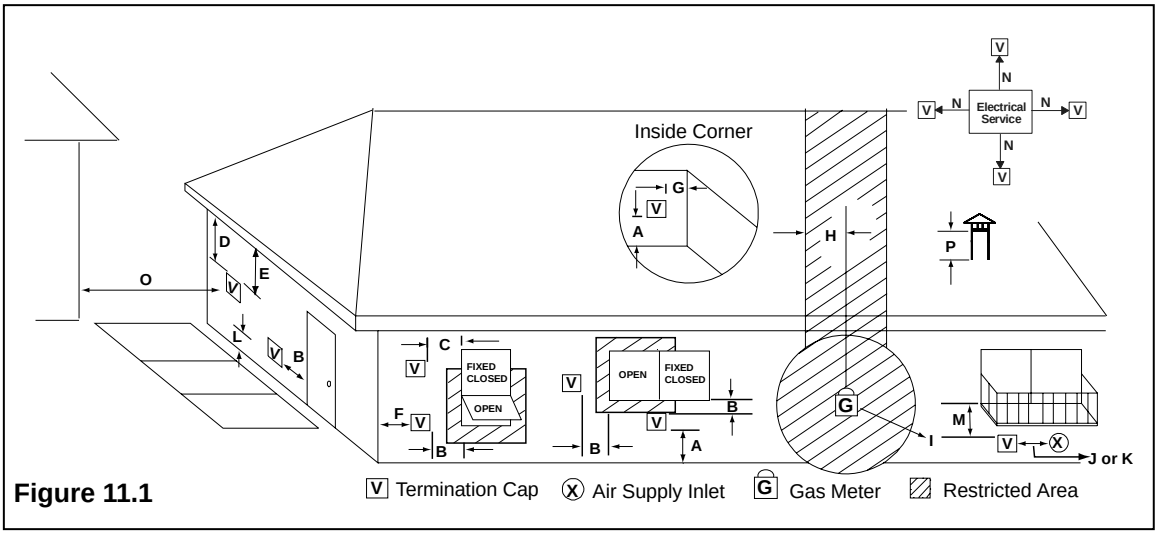


Figure 11.1

NOTE; All minimum clearances are listed with an Outside Air Kit (OAK) installed, unless otherwise noted in table below.

A	12 in.	Above Finish Grade (the grade surface must be a non-combustible material.
B	12 in. 48 in. no OAK	Open door or window: below or to the side
B	12 in.	Open door or window: above
C	6 in.	Permanently closed window: above, below or to the side
D	18 in. 36 in. no OAK	Vertical clearance to a ventilated soffit located above the terminal within a horizontal distance of 2 ft from the center-line of the terminal
E	12 in.	Clearance to unventilated soffit
F	12 in.	Clearance to outside corner
G	12 in.	Clearance to inside corner
H	36 in.	Above gas meter/regulator measured from horizontal center-line of regulator
I	36 in. USA 72 in. Canada	Clearance to service regulator vent outlet
J	12 in. 48 in. no OAK	Clearance to non-mechanical air supply inlet to the building or the combustions air inlet to any other appliance
K	10 ft horizontal 3 ft vertical	Clearance to mechanical air supply
L	7 ft.	Above paved sidewalk, paved driveway located on **public** property
M	12 in.	Under an open veranda, porch, deck or balcony
N	See Note 1	Electric service: above, below or to the side (location must not obstruct or interfere with access).
O	24 in.	Adjacent building, fences and protruding parts of the structure
P	12 in.	Clearance above roof line for vertical terminations
	24 in.	Above grass, top of plants, wood or any other combustible
	12 in. 36 in. no OAK	Clearance from any forced air intake of other appliance
	12 in.	Clearance horizontally from combustible wall
	15 in.	Vented directly through a wall, minimum length of horizontal pipe
	6 in. horizontal 12 in. vertical	Minimum horizontal or vertical terminations must protrude from wall

NOTE 1: Consult local building, fire officials or authorities having jurisdiction.

NOTE 2: Local codes or regulations may require different clearances.

Termination must exhaust above air inlet elevation. It is recommended that at least 60 inches (1524mm) of vertical pipe be installed when appliance is vented directly through a wall. This will create a natural draft, which will help prevent the possibility of smoke or odor venting into the home during a power outage. It will also keep exhaust from causing a nuisance or hazard by exposing people or shrubs to high temperatures. The safest and preferred venting method is to extend the vent vertically through the roof.

CAUTION

Do not terminate vent in any enclosed or semi-enclosed area such as a carport, garage, attic, crawl space, under a sun deck or porch, narrow walkway or closely fenced area, or any location that can build up a concentration of fumes such as a stairwell, covered breezeway, etc.

B. Chimney and Exhaust Connection

1. **Chimney & Connector**: Use 3 or 4 inch (76-102mm) diameter type "L" or "PL" venting system. It can be vented vertically or horizontally.
2. **Mobile Home:** Approved for all listed pellet vent. Use listed double wall flue connector. A Quadra-Fire Outside Air Kit must be used with manufactured home installations.
3. **Residential:** Use 24 gauge single wall flue connector or listed double wall flue connector to Class A listed metal chimneys, or masonry chimneys meeting International Residential Code standards for solid fuel appliances.
4. **INSTALL VENT AT CLEARANCES SPECIFIED BY THE VENT MANUFACTURER.**
5. **Secure exhaust venting** system to the appliance with at least 3 screws. Also secure all connector pipe joints with at least 3 screws through each joint.

NOTE: All pipe must be welded seam pipe whenever possible. Seal pipe joints with high temperature silicone (500°F [260°C] minimum rated only).

NOTE: If burning shelled field corn, you must use approved venting specifically designed for corn. Follow the instructions from the venting manufacturer.

⚠ WARNING

Fire Hazard.

- Only LISTED venting components may be used.
- NO OTHER vent components may be used. Substitute or damaged vent components may impair safe operation.

⚠ WARNING

Vent surfaces get HOT, can cause burns if touched. Non-combustible shielding or guards may be required.

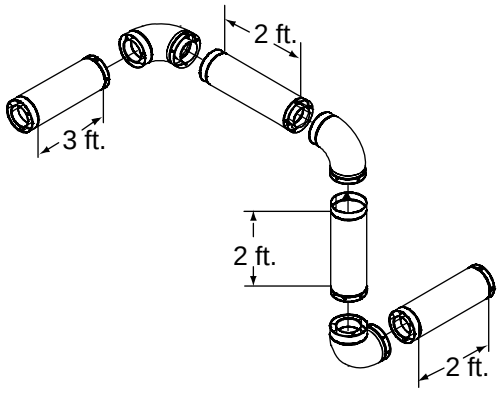
⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or your dealer.

C. Equivalent Feet of Pipe

The table below can help you calculate the equivalent feet of pipe which is a method used to determine pellet vent size. **See Figure 12.1**

Example of 3 Elbow-Rear Vent Termination Calculation



Pellet Venting Component	# of Elbows	Feet of Pipe	Multiplied By	Equivalent Feet	Components Equivalent Feet
90° Elbow or Tee	3		X	**5**	15
45° Elbow			X	**3**	
Horizontal Pipe		7	X	**1**	7
Vertical Pipe		2	X	**0.5**	1
			Total Equivalent Feet		**23**

Note: This is a generic example and is not intended to represent any specific fuel type.

Figure 12.1

D. Pipe Selection Chart

The chart will help you in determining proper venting size according to the equivalent feet of pipe calculated above and the altitude above sea level of this installation. **See Figure 13.1.** Locate the calculated equivalent feet of pipe on the vertical left side of the chart. Move to the right horizontally on the chart until you reach your altitude above sea level.

If you fall below the diagonal line, 3 or 4 inch (76 to 102mm) pipe may be used. If it is anywhere above the diagonal line, a 4 inch (102mm) diameter pipe is required.

The chart reveals that a 90° elbow is 5 times as restrictive to the flow of exhaust gases under positive pressure as 1 foot of horizontal pipe, and a foot of horizontal pipe is twice as restrictive as a foot of vertical pipe.

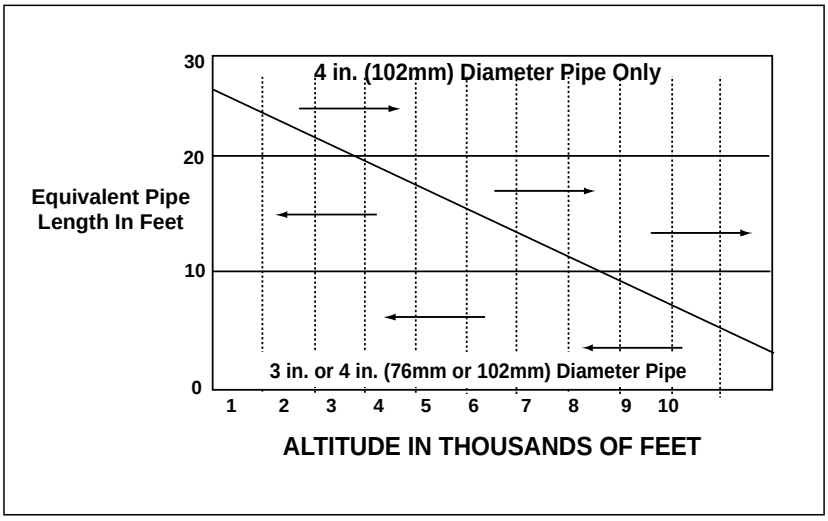


Figure 13.1

WARNING

Fire Risk.

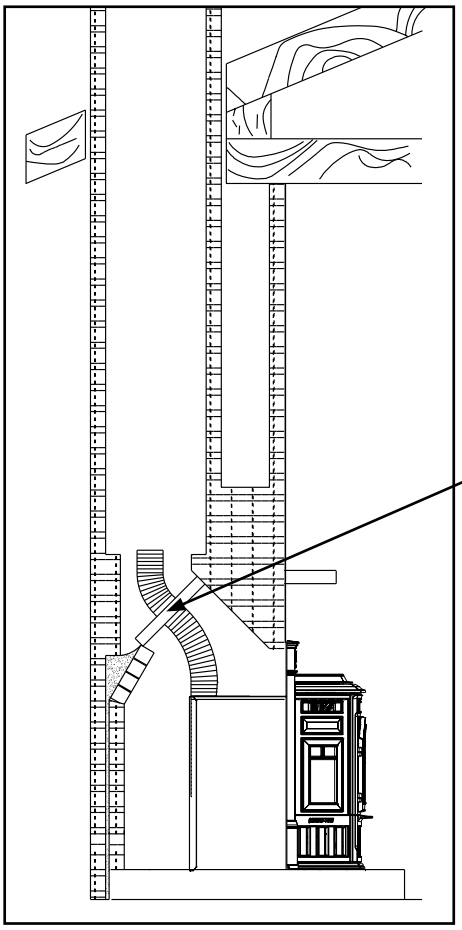
Do NOT pack insulation or other combustibles between firestops.

- ALWAYS maintain specified clearances around venting and firestop systems.
- Install firestops as specified.

Failure to keep insulation or other material away from vent pipe may cause fire.

5 Venting Systems

A. Direct Connect Without Outside Air



NOTE; Use metal plate around exhaust vent pipe and seal all edges with non-flammable insulation such as fiberglass, mineral wool or ceramic material.

Do not use high temperature caulking materials to seal any edge to prevent future serviceability.

Figure 14.1

B. Direct Connect With Outside Air

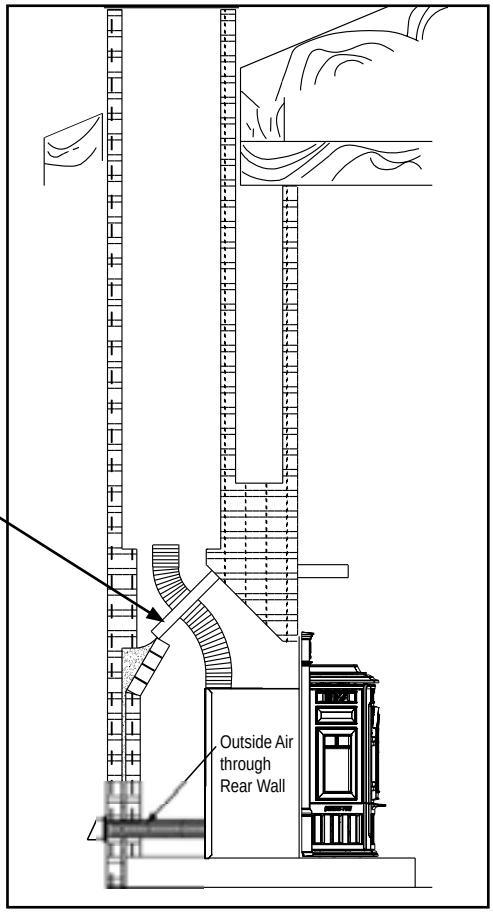


Figure 14.2

NOTE:
- Illustrations reflect typical installations and are FOR DESIGN PURPOSES ONLY.
- Illustrations/diagrams are not drawn to scale.
- Actual installation may vary due to individual design preference.

CAUTION

Never draw outside combustion air from:
- Wall, floor or ceiling cavity
- Enclosed space such as an attic or garage

WARNING

Fire Hazard

Inspection of Chimney:
- Masonry chimney must be in good condition.
- Meets minimum standard of NFPA 211
- Factory-built chimney must be 6 inch (152mm) UL103 HT.

NOTE:
In Canada, where passage through a wall or partition of combustible construction is desired, the installation shall conform to CAN/CSA-B365.

C. Full Reline With Outside Air

NOTE: Check clearances carefully for this type of installation to ensure adequate room for outside air venting.

NOTE: In Canada only a full reline is allowed per ULC S628, ORD ULC C1482.

CAUTION

Check building codes prior to installation.

- Installation MUST comply with local, regional, state and national codes and regulations.
- Consult local building, fire officials or authorities having jurisdiction about restrictions, installation inspection, and permits.

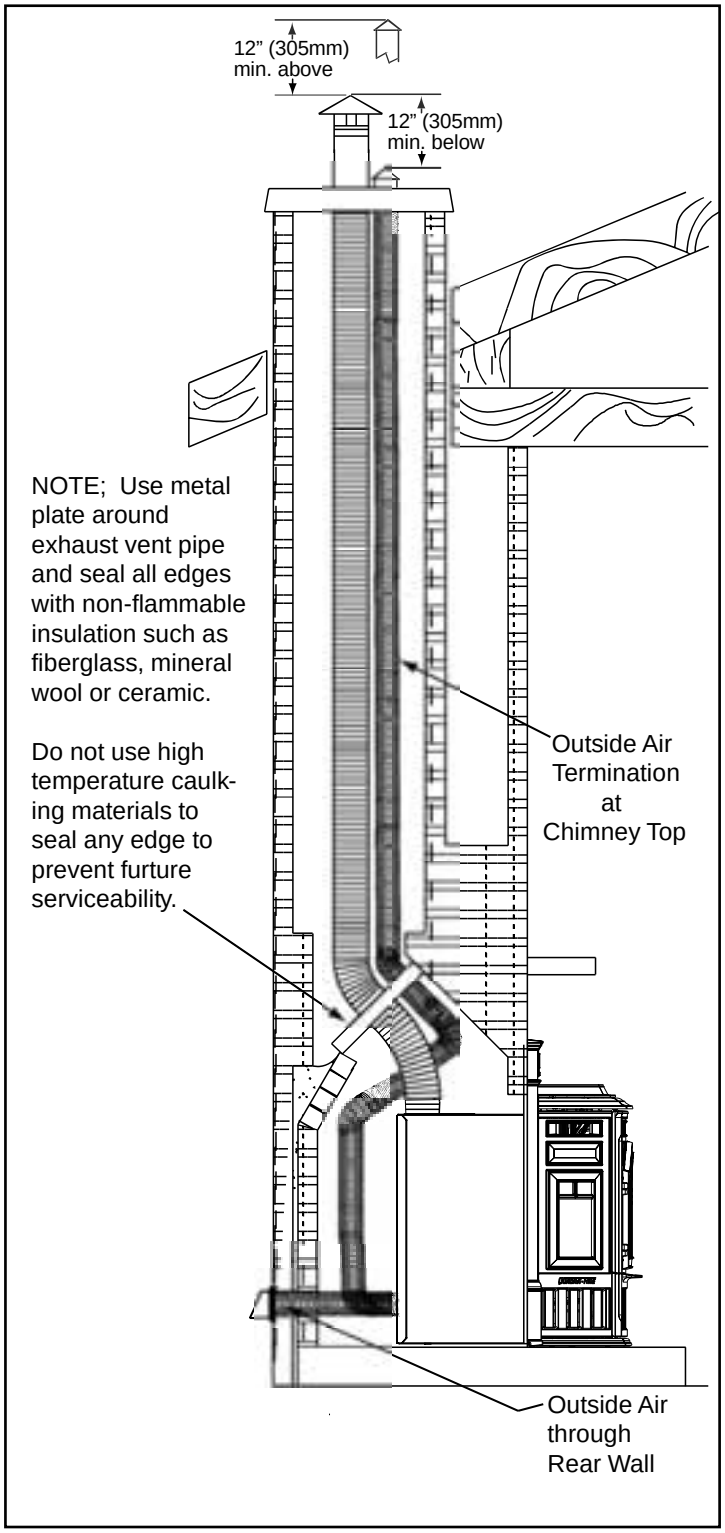

12" (305mm) min. above
12" (305mm) min. below
NOTE; Use metal plate around exhaust vent pipe and seal all edges with non-flammable insulation such as fiberglass, mineral wool or ceramic.
Do not use high temperature caulking materials to seal any edge to prevent furture serviceability.
Outside Air Termination at Chimney Top
Outside Air through Rear Wall

Figure 15.1

6 Mobile Home

A. Mobile Home Installation

You must use a Quadra-Fire Outside Air Kit for installation in a mobile home.

1. An outside air inlet must be provided for the combustion air and must remain clear of leaves, debris, ice and/or snow. It must be unrestricted while the appliance is in use to prevent room air starvation which causes smoke spillage. Smoke spillage can also set off smoke alarms.
2. The combustion air duct system must be made of metal. It must permit zero clearance to combustible construction and prevent material from dropping into the inlet or into the area beneath the dwelling and contain a rodent screen.
3. The appliance must be secured to the mobile home structure by bolting it to the floor (using lag bolts). Use the same holes that secured the appliance to the shipping pallet.
4. The appliance must be grounded with #8 solid copper grounding wire or equivalent, terminated at each end with an NEC approved grounding device.
5. Refer to Clearances to Combustibles and floor protection requirements on **pages 8 & 9** for listings to combustibles and appropriate chimney systems.
6. Use silicone to create an effective vapor barrier at the location where the chimney or other component penetrates to the the exterior of the structure.
7. Follow the chimney manufacturer's instructions when installing the vent system for use in a mobile home.
8. Installation shall be in accordance with the Manufacturers Home & Safety Standard (HUD) CFR 3280, Part 24.

⚠ WARNING

Installation must comply with Manufactured Home and Safety Standard (HUD), CFR 3280, Part 24.

⚠ WARNING

Never install in a sleeping room.

CAUTION

Maintain structural integrity of mobile home:
- Floor, wall, ceiling and/or roof.

Do NOT cut through:
- Floor joist, wall studs or ceiling trusses.
- Any supporting material that would affect the structural integrity.

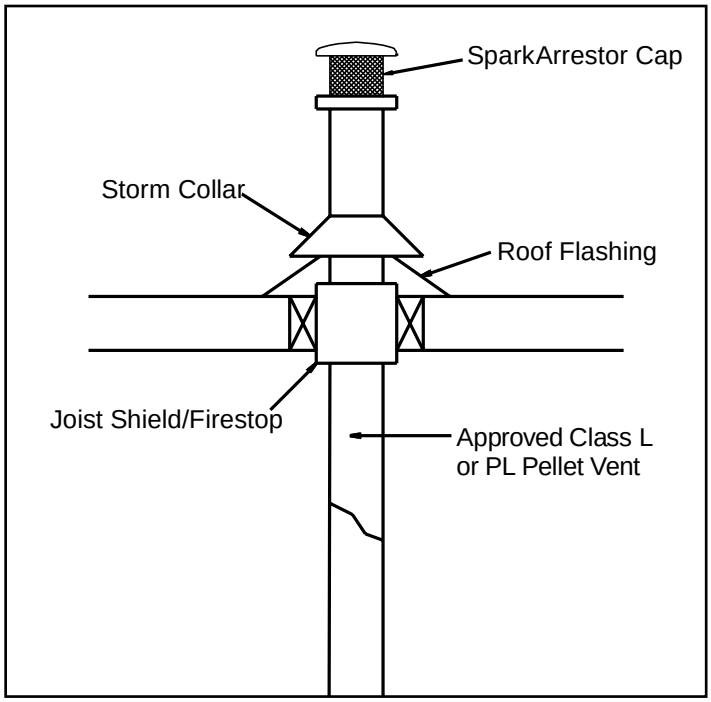


Figure 16.1

7 Appliance Set-Up

A. Leveling System

The leveling bolts are located on the sides of the appliance, front and rear. To access the bolts, remove the front access panels. Reach in and turn the bolt to the desired height to level the appliance.

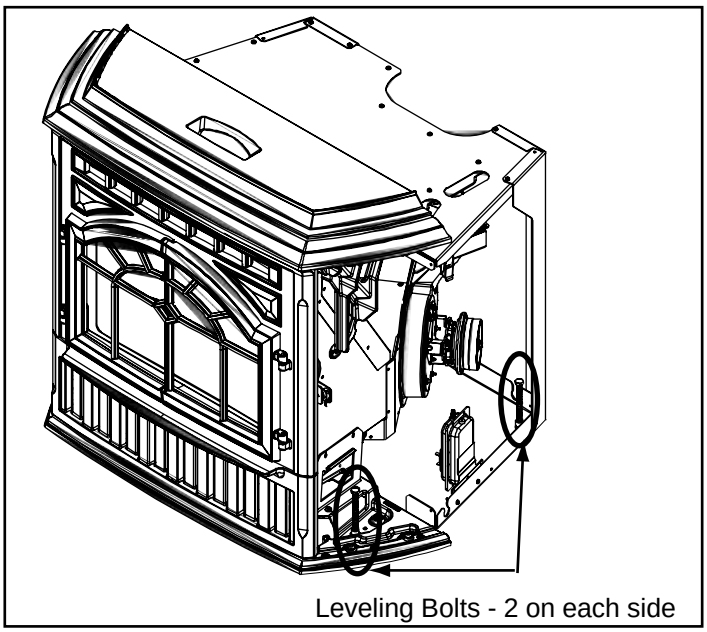


Figure 17.1

B. Outside Air Kit Instructions

Parts Included in Kit: 2 wire ties, 1 collar assembly, 1 termination cap assembly, 1 trim ring, fasteners. **3 INCH ALUMINUM FLEX PIPE NOT INCLUDED.**

Tools Needed: Phillips head screw driver; wire cutters; hole saw or jig saw.

1. Measure distance from floor to air vent opening in appliance and mark location on wall.
2. Use saw to cut opening in wall. Cut a 3-1/2 to 4 inch (89-102mm) opening on inside wall and a 4 to 4-1/2 inch (102-114mm) opening on outside of house.
3. Use wire ties to secure flex pipe to collar assembly.
4. Slide trim ring over flex pipe and run pipe through wall.
5. Attach flex pipe (not included) to outside termination cap with second wire tie.
6. Secure termination cap to outside surface.
7. Secure trim ring to interior wall.

CAUTION

Never draw outside combustion air from:
- Wall, floor or ceiling cavity
- Enclosed space such as an attic or garage

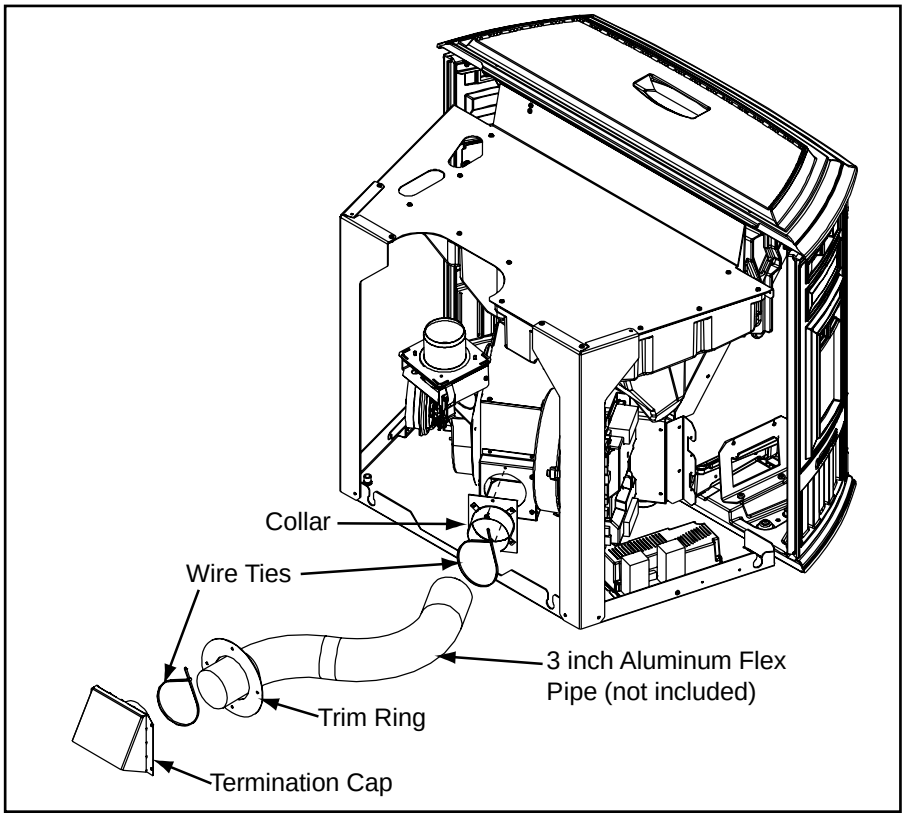


Figure 17.2

C. Hearth Support

Included in Kit: (1) bottom, (1) trim front, (2) trim sides, (2) trim extensions

Tools Needed: Phillips head screw driver, measuring tape, gloves

1. Remove contents from box and lay on protective surface to avoid scratching the paint.
2. Lay front and sides face down. Bend the tabs down toward the inside. **Figure 18.1.**
3. The side pieces are shipped flat. It is must easier to flex the sides into a bowed position before installing.
4. Lay the cast bottom face up. Attach the 2 sides FIRST and then the front piece. **Figure 18.2.**
5. Turn the cast bottom right side up and attach the panel extensions. Note the alignment hole.
6. Attach cast footers.
7. Place the assembled hearth support under the insert.
8. Open the door and attach the hearth support to the insert. There are 9 attachment holes.

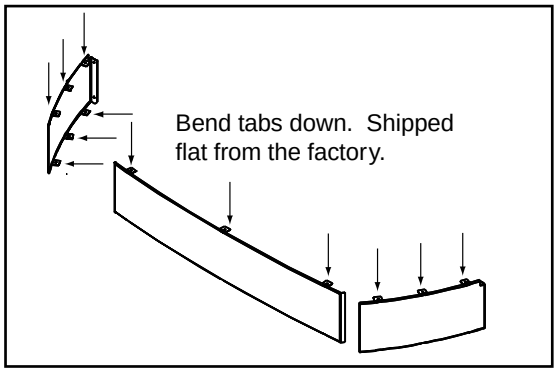


Figure 18.1

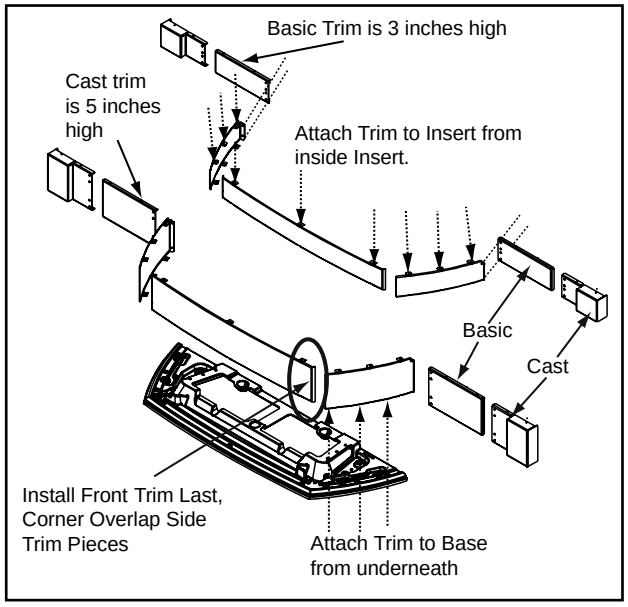


Figure 18.2

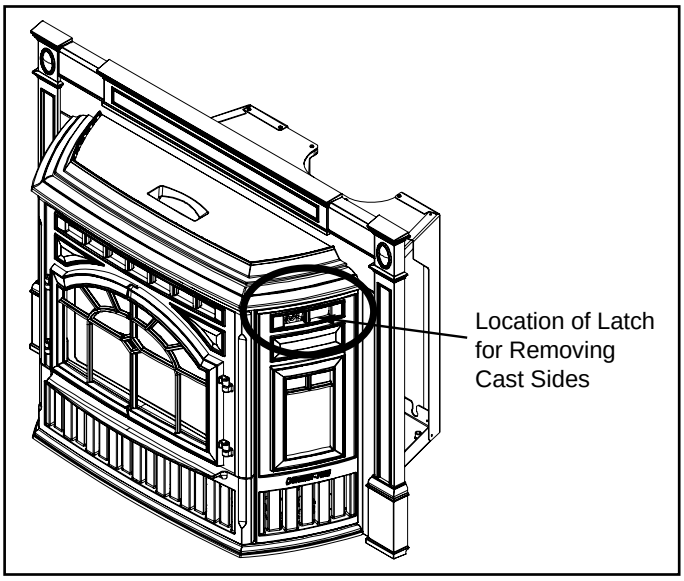


Figure 18.3 - Shown with Cast Panel Set

D. Removal of Cast Sides

You will need to remove the cast sides in order to install the panel and trim set.

1. There is a latch on the back side of the cast side in the middle of the top opening of the cast side as indicated in **Figure 18.3.**
2. Place your fingers inside the opening and squeeze the latch. The side can now be pulled toward you and removed. Place on a protective surface so as not to damage the finish.
3. To replace the side, set the bottom in first. Squeeze the latch in an open position. Place the cast side into position and then release the latch. The latch hooks onto a bracket to hold the side in place.

E. Panel and Trim Set - Cast

Included in Panel Kit: (2) side panels, left and right; (1) panel top; (1) fastener package.

Included in Cast Trim Kit: (2) cast trim legs, left and right; (1) cast trim header; (2) cast trim footers, left and right; (1) fastener package.

Tools Needed: Powered Phillips head screw driver

1. Remove contents from box being careful not to scratch or damage the cast trim pieces.
2. Lay the panel set face down on protective covering to prevent scratching the painted surface.
3. Secure the panel legs to top panel with the screws provided.
4. Now bend the tabs down toward the backside of the panel set, 5 on top and 2 on each leg. Leave the panel set face down. **Figure 19.1.**
5. Place the corresponding cast trim pieces (2 cast trim legs and 1 cast trim header) underneath the panel set, also face down.
6. Place washer provided over tab and secure the trim and panel together with screw. Continue for all tabs.
7. Secure cast footers with screws.
8. Remove both left and right cast sides from insert. **See page 18.**
9. Slide panel and trim over the top of the insert into place matching the mounting tabs on the panel with the slots on the insert.

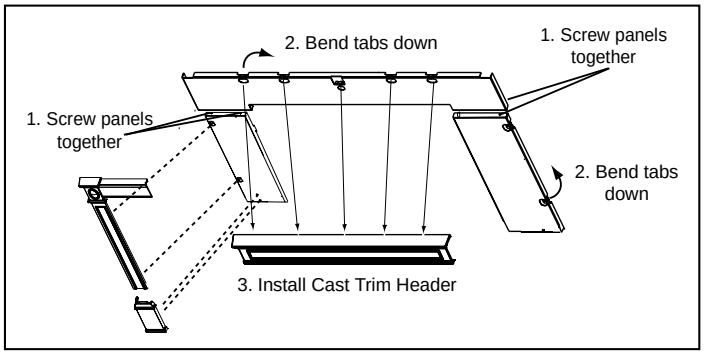


Figure 19.1

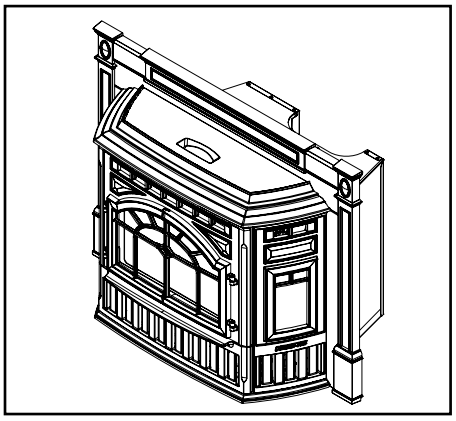


Figure 19.2- Completed View

F. Panel & Trim Set, Basic

Included in Panel & Trim Kit: (2) corner brackets and set screws; (1) trim set, 3 piece; (2) side panels; (1) top panel; (4) screws;

Tools Needed: Powered Phillips head screw driver

1. Secure the top panel to the panel sides with the screws provided. **Figure 19.3**.
2. Assemble the trim with the (2) corner brackets provided. **Figure 19.4.**
3. Remove the 2 cast sides and slide the assembled trim over the assembled panel set. **See Figure 18.2 on page 18.**
4. Carefully slide panel and trim over the top of the insert into place matching the mounting holes on the panel with the mounting holes on the insert. Secure with screws provided. **Figure 19.5.**

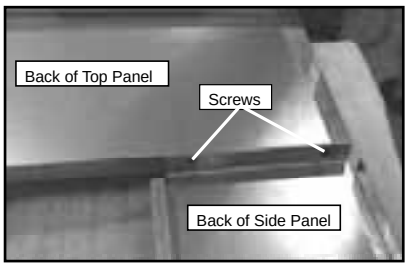


Figure 19.3

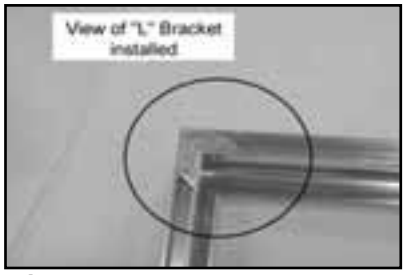


Figure 19.4

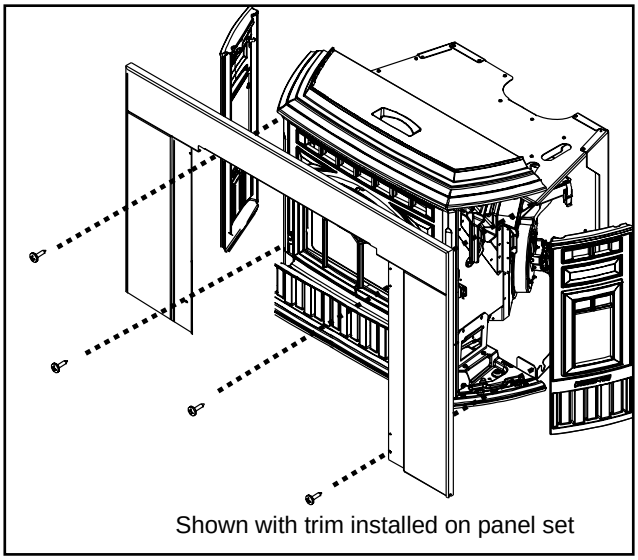


Figure 19.5

G. Optional Log Set Placement Instructions

2 PIECE LOG SET INSTALLATION

1. Place the left log as shown. There are 2 indentations in the bottom of the log to fit over the screw heads in the firebox. **Figure 19.1 and 19.2**
2. Place the right log in front of the 2 screw heads in the firebox. **Figure 19.3 & 19.4.**

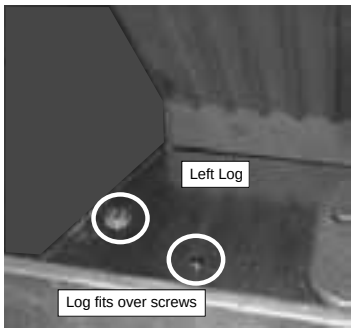


Figure 20.1

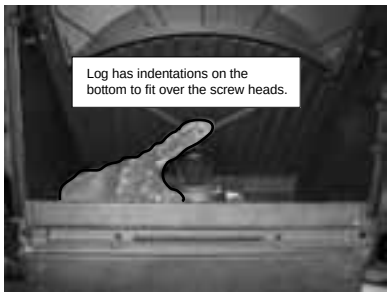


Figure 20.2

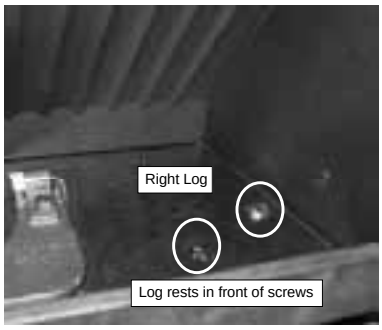


Figure 20.3

Figure 20.4

CAUTION

Logs are FRAGILE. Use extreme care when handling or cleaning logs.

NOTE:
Due to the abrasive nature of a pellet appliance fire, the logs are not covered under warranty. Any placement variation other than shown here can cause excessive heat and shall void the appliance warranty.

H. Thermostat Wall Control Installation

1. When mounting the thermostat wall control on the wall, be sure to follow your thermostat wall control's installation instructions carefully.

   NOTE: The thermostat wall control should be mounted on an inside wall and not in direct line with the appliance convection air.

   NOTE: If the thermostat wall control is located too close to the appliance, you may need to set the temperature setting slightly higher to maintain the desired temperature in your home.

2. There is a 5 screw terminal block located behind the left cast side of the appliance. Remove the side for easy access. The center 3 screws are for the thermostat wall control wires and the 2 outer screws are mounting screw and should not have wires attached to them. The thermostat wires are color coded. The green wire is on top, the white in the middle and the red on the bottom.

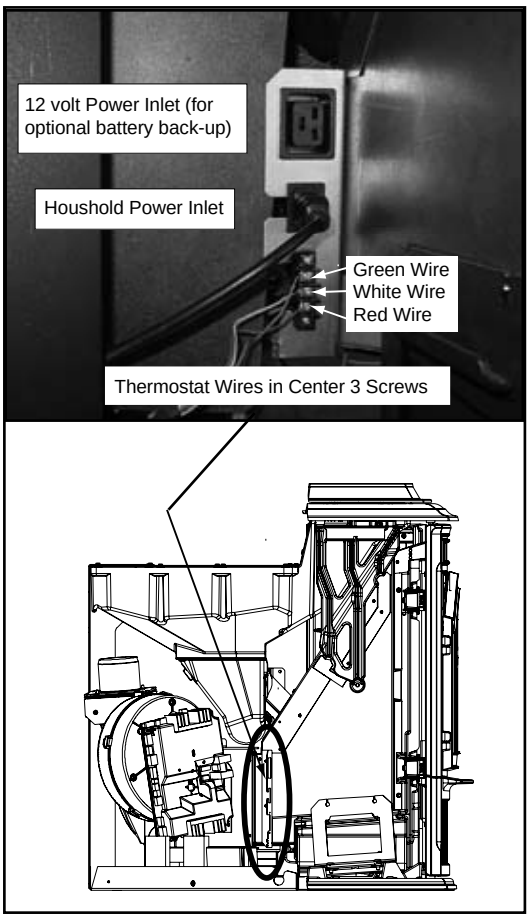


Figure 20.5

⚠ CAUTION

Shock hazard.

- Do NOT remove grounding prong from plug.
- Plug directly into properly grounded 3 prong receptacle.
- Route cord away from appliance.
- Do NOT route cord under or in front of appliance.

8 Operating Instructions

A. Fuel Size And Material

1. Wood Pellets

Wood pellets are made from sawdust or wood by-products. If the source material is hardwood, they can have a higher mineral content, creating more ash. Fuels containing bark will also have higher ash content. Minerals and other non-combustible materials such as sand will turn into a hard, glass-like substance called a clinker when heated to the extreme temperatures our firepot reaches. This is what forms clinkers in the bottom of the firepot. Trees from different areas will vary in mineral content. That is why some fuels produce more clinkers than others. Pellets are manufactured in either 1/4 inch or 5/16 inch (6-8mm) diameter and should be **no more than 1-1/2 inches (38mm) in length**. Pellet lengths may even vary by lot from the same manufacturer which is why the feed rate may need to be adjusted occasionally. **If you burn pellets longer than 1-1/2 inches (38mm) you may have an inconsistent fuel feed rate and/or missed ignitions.**

Pellet fuel quality can greatly fluctuate. The Advanced Energy (AE) appliance has been designed to burn a wide variety of fuels, giving you the choice to use the fuel that is most economical in your region. Premium wood pellets have the lowest ash content, under 1%. Standard grade pellet, high ash pellets, corn and other biomass fuels all have higher ash content. The higher the ash content, the more often the ash pan will need to be emptied. Premium wood pellets will produce the least ash and tends to produce the highest heat output.

Always burn dry fuel. Burning fuel with high moisture content takes heat from the fuel and tends to cool the appliance, robbing heat from your home. Damp pellet fuel can clog the feed system.

We recommend that you buy fuel in multi-ton lots whenever possible. However, we do recommend trying various brands before purchasing multi-ton lots to ensure your satisfaction.

2. Other Fuels

This appliance has been tested and approved by Hearth & Home Technologies for shelled field corn, wheat and black oil sunflower seeds. When changing to a different fuel, be sure to empty the hopper of the previous fuel and vacuum the hopper before you fill it with the new fuel. Make the appropriate selection on the FUEL SELECTION screen on the thermostat wall control. The burn rate, BTU content and heat output will all vary depending on fuel selected. **See Figure 22.1 on page 22.**

NOTE: If you are burning a high ash fuel set the fuel selection "Wd Pellet-Util".

When purchasing corn or wheat to burn in your appliance, read the ingredient label very carefully. Do NOT purchase fuels that contains any additives such as oil and meals as they will cause poor unit performance.

B. General Operating Information

See Thermostat Wall Control Manual for detailed operating instructions.

1. Thermostat Wall Control - Automatic Setting

The appliance is like most modern furnaces; when the thermostat wall control calls for heat, your appliance will automatically light and deliver heat. When the room is up to temperature and the wall control is satisfied the appliance will shut down. In the automatic setting the heat output level is controlled by the wall control. Select "Automatic" on the AUTO/MANUAL screen. **Figure 21.1.**

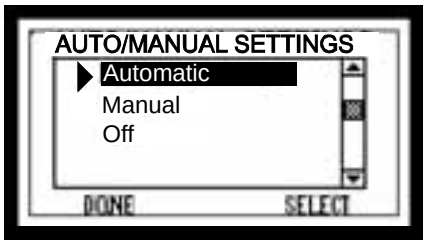


Figure 21.1

2. Thermostat Wall Control - Manual Setting

When you select "Manual" on the AUTO/MANUAL screen the appliance will still automatically turn on and off according to the temperature setting. However, you will be able to manually control the heat output levels. Adjust the heat output levels by using the Heat Output Level screen. **Figure 21.2.**

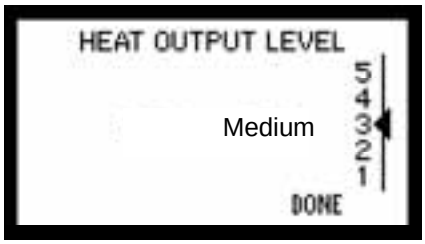


Figure 21.2

3. Auto Clean Firepot System

Your appliance is equipped with an automatic firepot cleaning system that will change the frequency of cleaning based on the fuel being burned.

The auto clean system will clean itself immediately on initial plug in. If there is a power outage, as soon as power is restored it will automatically clean itself.

CAUTION

Tested and approved for wood pellets, shelled field corn, wheat and black oil sunflower seeds. Burning of any other type of fuel voids your warranty.

C. Before Your First Fire

1. First, make sure your appliance has been properly installed and that all safety requirements have been met. Pay particular attention to the fire protection, venting and thermostat wall control installation instructions.
2. Double check that the ash pan and firebox are empty and then close the front door.

CAUTION

Tip of thermocouple must be in contact with the inside end of the thermocouple cover.

Missed ignitions can occur.

D. Starting Your First Fire

1. Fuel Selection

To start your first fire, you must select the appropriate fuel on the FUEL SELECTION screen on the thermostat wall control to match the fuel you have chosen to burn. If the proper fuel is not selected your appliance will not operate properly. For example, if you have selected wood pellets and you are burning corn, the appliance may not light or may go out or overfeed. See **Figure 22.1** for an example of the screen on the wall control.

2. Comfort Level Selection

Once your fuel is selected, select the temperature at the desired setting on the SET COMFORT LEVEL screen. See **Figure 22.2.**

3. Automatic or Manual Setting

The automatic setting will control the heat output based on the comfort level selection. The manual setting allows you to manually control the heat output settings. **See page 21.**

NOTE: See the Thermostat Wall Control manual for detailed instructions

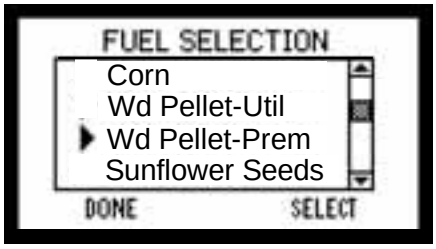


Figure 22.1

Figure 22.2

E. Fire Characteristics and Flame Height Adjustment

A properly adjusted fire with the heat output on HIGH has an active flame pattern that extends out of the firepot approximately 8 inches (203mm), If the fire has tall flames with black tails and seems somewhat lazy, the flame height will need to be reduced. If the fire is not 8 inches (203mm) tall, the flame height will need to be increased. A medium and low setting will give a shorter flame. The flame with rise and fall somewhat. This is normal. With your appliance in Manual mode and the heat output level set to High, adjust the flame height using the FLAME HEIGHT ADJUST screen under USER SETTINGS on the thermostat wall control. **Figure 22.3.**

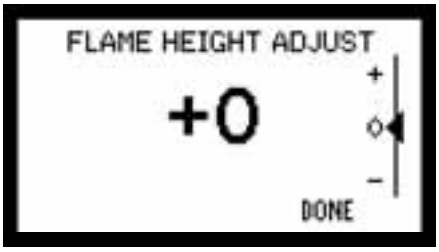


Figure 22.3

F. Battery Back-up System (Optional)

The appliance has been designed to operate on an optional battery back-up system. If you have frequent power outages in your region, hook the appliance up to a 12 volt battery and it will automatically switch to battery power in the event of power failure. There will be a battery icon that appears on your wall control to let you know you are now operating on battery power.

Once you are operating on battery power, you must manually light the fire in the appliance as it will no longer automatically light. Use only approved fire starting gel to start the fire. The high burn rate is no longer available on battery back-up as each level drops down one level. For example; the high burn becomes medium high burn and so on.

We recommend a 12 volt deep cycle battery, (i.e., marine or RV type). If the battery charge falls below 10 volt it can no longer sustain the appliance operation and the appliance will shut down. A 12 volt battery cable is available through your local dealer.

CAUTION

- Hook up to battery terminals BEFORE you plug battery into the appliance.
- Damage to internal electronic components may occur.

G. Ignition Cycles

The Advanced Energy engine is controlled by the digital wall control. The digital display on the wall control will tell you what your appliance is doing in the upper left corner, above the line. Every time the thermostat calls for heat, the appliance steps through five cycles: 1) ignition cycle; 2) soft-start cycle; 3) heating cycle; 4) shutdown cycle; 5) cleaning cycle. The duration and characteristics of these cycles may be different with each type of fuel selected.

1. Start-Up

During this cycle, the igniter turns on for 90 seconds to heat up the air in the firepot, the combustion blower starts, vacuum switch comes on and then the feed motor turns on adding fuel to the firepot and the appliance waits for the fire to start. The duration of start-up depends on the type and quality of fuel used. It is normal to see some smoke during the ignition process as moisture evaporates and the fuel lights. The smoke will stop once the fire starts. If you are lighting your appliance for the first time the feed tube is empty and it can take some time to fill it with fuel before you will see a fire. To speed up this process, put a handful of fuel in the firepot.

2. SS-Low / SS-Med

Once the fire is lit, the appliance moves into the low soft start cycle as it continues to build the fire. In this cycle, more fuel will be added. As the fire builds, the appliance will change to medium soft start mode and the heating cycle begins.

3. Auto / Man - L, ML, M, MH, H

There are two choices in the Automatic / Manual menu of how your appliance will operate. In Automatic Mode, the wall control will turn the heat output level up or down depending on how far the room temperature is from the desired temperature. The digital display will read AUTO:M, as an example of automatic, medium level. As the room temperature approaches the desired temperature, the appliance will turn down to lower settings. When you change the appliance to Manual set the heat output setting from the main screen. The right bottom button will read HEAT OUTPUT. You can operate the appliance from any of the 5 levels. On the lowest level, the appliance will stay on longer, burn less fuel per hour, but will take longer to bring the home up to your desired temperature. On the highest setting, the appliance will burn more fuel per hour, but bring your home up to temperature more quickly. Regardless of the heat output level, when the home reaches your set temperature, the appliance will go into the shut down cycle. In Manual mode heat ouput does not change. Turn to OFF to stop operation.

4. Shutdown

Once your home has reached your set temperature, the appliance will stop feeding fuel and allow the fire to diminish. The convection blower will continue to run until the appliance cools to appropriate temperature and will go into the auto clean cycle.

5. Auto Clean

The firepot auto-clean system will cycle when the appliance is first plugged in, when the house reaches temperature and the appliance shuts down, and at prescribed intervals, depending on the type of fuel selected. If your appliance is running and the auto-clean cycle is initiated, the appliance will revert to shut down cycle. The floor of the firepot will open and dump the ash into the ash pan. It takes approximagely 2 minutes to complete the auto clean cycle. The floor will then shut, and if the thermostat is still calling for heat, the fire will start again, continuing the heating process. During this auto-clean cycle, the convection blower will continue to run.

Additional Screen Messages:

READY - It is telling you that the home is up to temperature and doesn't need any heat.

- - - - - The screen will show 5 dashes when the wall control and the control board are NOT communicating with each other.

MAINTENANCE BURN - When the appliance is operating on battery backup prior to the auto clean to keep the system from shutting down as the appliance will not automatically re-light in manual mode.

OFF - The AUTO/MANUAL SETTING screen has been set to off. Set the appliance to OFF when performing periodic maintenance to prevent an unexpected start-up.

⚠ WARNING

Fire Risk
Do NOT operate appliance:
- With appliance door open.
- Firepot floor open.

Do NOT store fuel:
- Closer than required clearances to combustibles to appliance
- Within space required for loading or ash removal.

⚠ WARNING

Fire Risk.
Keep combustible materials, gasoline and other flammable vapors and liquids clear of appliance.

- Do NOT store flammable materials in the appliance's vicinity.
- Do NOT use gasoline, lantern fuel, kerosene, charcoal lighter fluid or similar liquids to start or "freshen up" a fire in this heater.
- Keep all such liquids well away from the heater while it is in use.
- Combustible materials may ignite.

H. Frequently Asked Questions

ISSUES	SOLUTIONS
1. Metallic noise	1. Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of your appliance.
2. Ash buildup on glass	2. This is normal. Clean the glass.
3. Glass has turned dirty	3. Excessive build up of ash. The lower burn settings will produce more ash, the higher burn settings produce less. The more it burns on low the more frequent cleaning of the glass is required.
4. Fire has tall flames with black tails and is lazy	4. The flame height adjustment needs to be reduced or the firepot needs cleaning. Heat exchanger or exhaust blower needs cleaning.
5. Excessive smokey start-up	5. Either the firepot is dirty or there is too much fuel at start-up and not enough air.
6. Large flame at start-up	6. This is normal. Flame will settle down once the fire is established. Some smoke is normal.
7. Mechanical Noise	7. The floor of the firepot in the auto clean system may make some noise as it scrapes the ash into the ash drawer.

CAUTION

Odors and vapors released during initial operation.

- Curing of high temperature paint.
- Open windows for air circulation.

Odors may be irritating to sensitive individuals.

9 Troubleshooting

With proper installation, operation, and maintenance your appliance will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist a qualified service person in the diagnosis of a problem and the corrective action to be taken. This troubleshooting guide can only be used by a qualified service technician.

Error Message	Possible Cause	Corrective Action
– – – – –	Bad wall control or control board 3 wires have loose connections or installed wrong	Replace wall control or control board Check connections
BATTERY TOO LOW	Battery supply on battery backup is drained	Recharge battery
BAD TC DROP TUBE	Drop tube thermocouple is broken or leads are reversed	Check connections Replace thermocouple
BAD TC FIREPOT	Firepot thermocouple is broken or leads are reversed	Check connections Replace thermocouple
SNAP DISC TRIPPED	Overheat sensor (snap disc) has tripped	Manually reset snap disc Unplug appliance before resettting
VACUUM SW ERROR	Vacuum switch is bad Vacuum hose is plugged/disconnected	Check connections. By-pass vacuum with jumper wire, if run, switch is bad. Replace switch. Check vacuum hose
COMB BLOWER JAMMED	Combustion blower is blocked/jammed	Remove blockage
AUGER JAMMED	Auger jammed, feed motor bad	Pull the feed system and inspect Clear jam
MISSED IGNITION	Igniter bad or poor harness connection Out of fuel or fuel is bridging in hopper	Check connections, if OK replace igniter Break up bridging pellets Refill hopper
MIN FIREPOT TEMP	Out of fuel	Refill hopper
MAX DROP TUBE TEMP	Wrong fuel table setting Flame height set too high	Confirm setting matches burning fuel Adjust flame height
CONV BLOWER JAMMED	Convection blower blocked/jammed	Remove blockage

10 Maintaining & Servicing Your Appliance

A. Proper Shutdown Procedure

1. Set the thermostat wall control to "OFF" in AUTOMATIC/ MANUAL SETTINGS screen and let the appliance completely cool. **Figure 26.1**. The exhaust blower must be off before you can unplug the appliance before servicing.
2. Smoke spillage into the room can occur if the appliance is not cool before unplugging.
3. There is a risk of shock if the appliance is not unplugged before servicing the appliance.

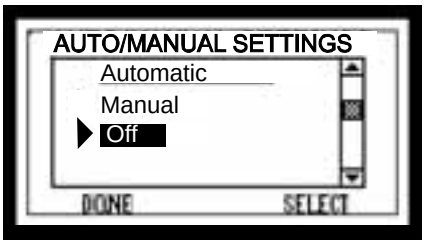


Figure 26.1

⚠ CAUTION

Shock and Smoke Hazard

Proper Shutdown Procedure must be followed.

- Smoke spillage into room can occur if appliance is not cool before unplugging.
- Risk of shock if appliance not unplugged before servicing appliance.

B. General Maintenance

1. Types of Fuel

Depending on the type of fuel you are burning will dictate how often the firepot cleans itself. If the fuel you are burning has a high dirt or ash content or you are burning other biomass fuels, it may be necessary to do a more thorough cleaning during the burn season. The auto-clean firepot system will routinely clean the firepot at shutdown when the wall control is satisfied or the predetermined amount of burn time has elapsed. A clinker is formed when dirt, ash or a non-burnable substance is heated to 2000°F (1093°C) and becomes glass-like. Clinkers filling the ash pan will have to be cleaned out more often than ash. Excessive clinkers will eventually jam the auto clean system and generate an error. **Figure 26.2.**

2. Auto-Clean System Inspection

- **Frequency:** As needed
- **By:** Homeowner
- **Task:**

a. The appliance must be in complete shutdown and cool.

b. Inspect the auto clean rails for any degradation or deformation. As the rails heat up and cool down there may be some sagging of the rails. Replace them if that occurs.

c. Inspect the holes in the firepot floor for any debris. They must be kept clear. If you are burning corn, the holes have a tendency to fill with particles which will need to be removed.

3. Cleaning Firepot with Firepot Scraper

- **Frequency:** As needed
- **By:** Homeowner
- **Task:**

a. The appliance must be in complete shutdown and cool and the exhaust blower off.

b. It may be necessary to use your firepot scraper to chip away material that has built up on the sides of the firepot and to push out any clinkers. Larger clinkers may have to be removed from the top of the firepot. Corn clinkers can be especially difficult to break up.

c, After scraping the firepot and inspecting the holes, turn off the power and then restore the power. The auto clean system will then clean itself.

d. The firepot floor plate must be fully closed when finished.

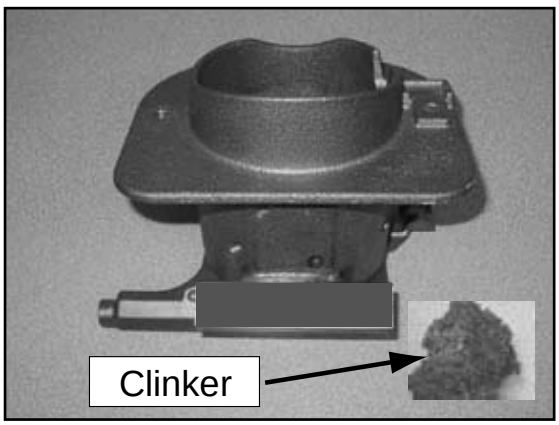


Figure 26.2 - Large Clinker

4. Cleaning Ash Drawer

- **Frequency:** As needed
- **By:** Homeowner
- **Task:**

Locate the ash drawer underneath the firepot. Slide the ash drawer straight out. Empty into a non-combustible container and re-install ash drawer. **See Disposal of Ashes.**

5. Ash Removal from Firebox

- **Frequency:** Weekly or as needed
- **By:** Homeowner
- **Task:**

There must not be any hot ashes in the firebox during cleaning so allow the appliance to completely cool. Frequent cleaning of the ash in the firebox with a vacuum cleaner will help slow down the build-up of ash in the exhaust blower and vent system.

⚠ WARNING

Disposal of Ashes

- Ashes should be placed in metal container with tight fitting lid.
- Ashes should be retained in closed container until all cinders have thoroughly cooled.

6. Disposal of Ashes

- **Frequency:** As needed
- **By:** Homeowner
- **Task:**

Ashes should be placed in a metal container with a tight-fitting lid. The closed container of ashes should be placed on a non-combustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have been thoroughly cooled.

7. Cleaning Heat Exchanger & Drop Tube

- **Frequency:** Monthly or as needed
- **By:** Homeowner
- **Task:**

a. Allow the appliance to completely cool down.

b. It is necessary to remove the baffle to gain access to the heat exchanger. Follow instructions for baffle removal on **page 29.**

c. Vacuum the ash from heat exchanger with an upholstery brush. Also vacuum the back of the baffle. Inspect the drop tube and remove any residue build-up in the drop tube. **Figure 27.1**

d. Replace the baffle and close the door.

Figure 27.1

8. Cleaning the Hopper

- **Frequency:** Monthly or after burning 1 ton of fuel
- **By:** Homeowner
- **Task:**

After burning approximately 1 ton of fuel you will need to clean the hopper to prevent sawdust and/or fines build-up. A combination of sawdust/fines and pellets on the auger reduces the amount of fuel supply to the firepot. This can result in nuisance shutdowns and mis-starts.

a.. The appliance must be in complete shutdown. Allow the appliance to completely cool down.

b. Empty the hopper of any remaining pellets.

c. Vacuum the hopper and feed tube.

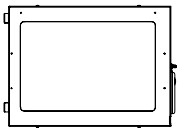
9. Cleaning the Glass

- **Frequency:** As needed
- **By:** Homeowner
- **Task:**

a. Appliance must be completely cool before cleaning glass.

b. Use a damp paper towel or any nonabrasive glass cleaner. Wipe off with dry towel.

CAUTION



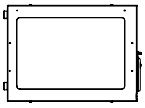
Handle glass assembly with care.

When cleaning glass door:

- Avoid striking, scratching or slamming glass.
- Do NOT clean glass when hot.
- Do NOT use abrasive cleaners.
- Use a hard water deposit glass cleaner on white film.

Refer to maintenance instructions.

WARNING



Handle glass doors with care.

- Inspect the gasket to ensure it is undamaged.
- Do NOT strike, slam or scratch glass.
- Do NOT operate appliance with glass door removed, cracked, broken or scratched.

10. Cleaning Exhaust Blower - Requires No Lubrication

- **Frequency:** Yearly or as needed
- **By:** Qualified Service Technician
- **Task: Contact your local dealer.**

11. Cleaning Convection Blower - Requires No Lubrication

- **Frequency:** Yearly or as needed
- **By:** Qualified Service Technician
- **Task: Contact your local dealer.**

12. Door Latch Inspection

- **Frequency:** Periodically
- **By:** Homeowner
- **Task:**

The door latch is non-adjustable but the gasketing between the glass and firebox should be inspected periodically to make sure there is a good seal. If the gasket is frayed or damaged, replace with a new one.

13. Soot and Fly Ash: Formation & Need for Removal in Exhaust Venting System.

- **Frequency:** Yearly or as needed
- **By:** Qualified Service Technician/Homeowner
- **Task:**

The products of combustion will contain small particles of fly ash. The fly ash will collect in the exhaust venting system and restrict the flow of the flue gases. At start-up if there is incomplete combustion, or if there is a shut-down or incorrect operation of the appliance it will lead to some soot formation. This will collect in the exhaust venting system.

The venting system may need to be cleaned at least once a year or more often depending upon the quality of your fuel or if there is a lot of horizontal pipe sections. Ash will build up more quickly in the horizontal sections.

C. High Ash Fuel Content Maintenance

- **Frequency:** As needed
- **By:** Homeowner
- **Task:**

If the ash buildup exceeds the half way point in the firepot before it automatically cleans, then the firepot is not being cleaned often enough. Double check the wall control to ensure the proper setting has been selected for the fuel you are burning. If that is correct, change the setting to **WD Pellet-Util.**

Follow the detailed instructions found in this section for each step listed below.

- Allow the appliance to completely cool down.
- Empty the firepot. **Section 10, B.3**
- Clean the firebox. **Section 10, B.5**
- Empty the ash drawer. **Section 10, B.4**
- Dispose of the ashes. **Section 10, B.6**
- Restart the appliance with selected fuel on wall control.

WARNING

Fire and Smoke Risk.

- High ash fuels or lack of maintenance can cause firepot to overfill. Follow proper shutdown procedure if ash buildup exceeds half way point in firepot.
- Failure to do so could result in smoking, sooting and possible hopper fires.

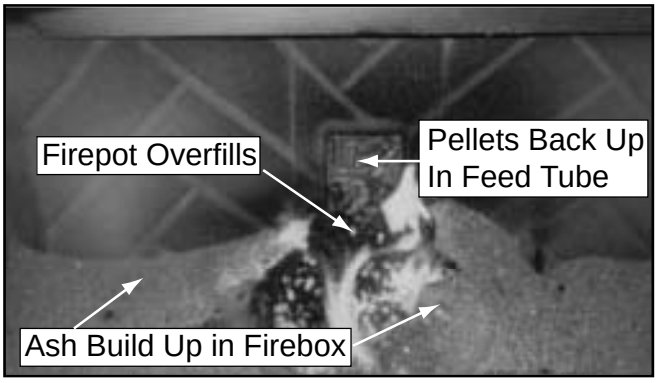


Figure 29.1

D. Baffle Removal

WARNING

Cast iron is a very heavy material. The baffle is made of cast iron and therefore is heavy and awkward at times to maneuver. Clear and prepare your work area before you begin.

a. Allow appliance to cool completely.

b. Open door.

c. The baffle is located at the top inside of firebox.

d. Remove baffle by placing a flat head screwdriver into the slot of the latches located in the upper corners and push down. The bottom of the latch will fall forward off of the post. Lift the baffle up and then out toward you. **Figure 29.2.**

e. To replace the baffle, place the 2 locating ears behind the bottom edge and tilt the baffle up and into place. the baffle must be centered in the firebox before latching it in place. If it is not centered the latch is trapped between the baffle and side of the firebox instead of latching properly. The bottom of the latches will fit over the posts. Push the top of the latch forward to lock latch into place.

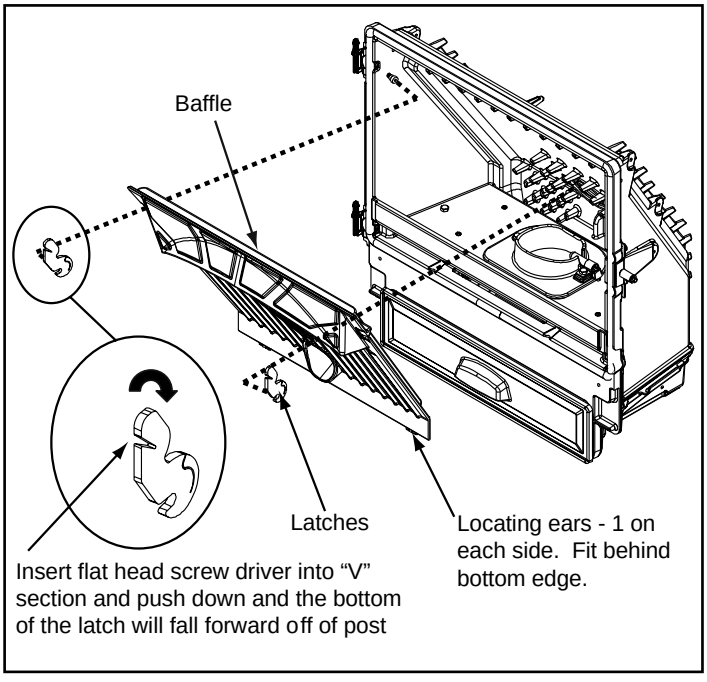

Baffle
Latches
Locating ears - 1 on each side. Fit behind bottom edge.
Insert flat head screw driver into "V" section and push down and the bottom of the latch will fall forward off of post

Figure 29.2

E. Glass Replacement

⚠ WARNING

Glass is 5mm thick high temperature heat-resistant ceramic glass.

DO NOT REPLACE with any other material.

Alternate material may shatter and cause injury

a. Swing open the face and remove door from the appliance by lifting door off of hinge pins and lay on a flat surface face down.

b. Using a Phillips head screw driver, remove 4 screws 2 on the top and 2 on the bottom. Remove metal bracket and then remove the glass. **Figure 30.1**

c. Replace with new glass with gasket.

d. Re-attached metal bracket with 4 screws.

e. Re-install door over hinge pins and close face.

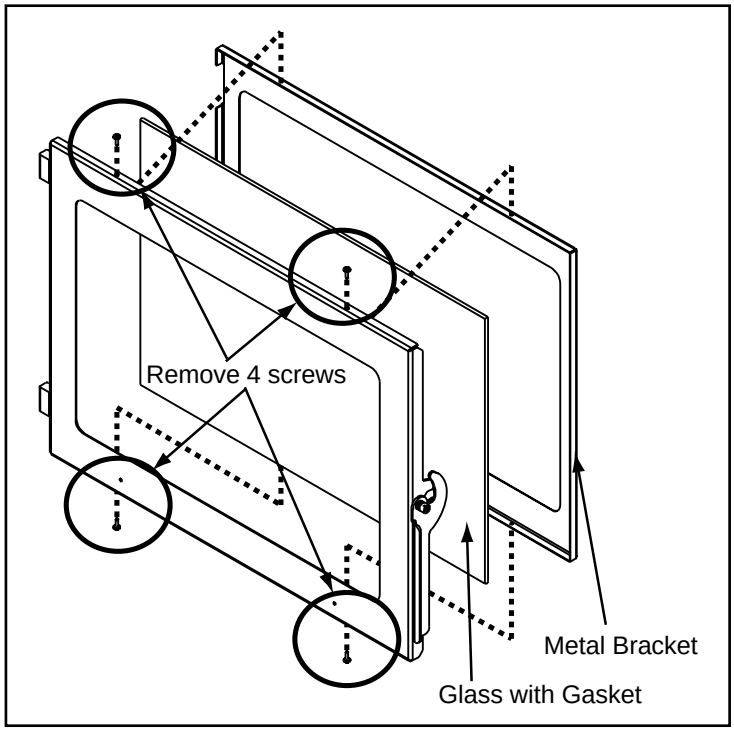


Figure 30.1

11 Reference Materials

A. Component Function

When describing the location of a component, it is always AS YOU FACE THE FRONT OF THE APPLIANCE.

1. Auto Clean Motor

The auto clean motor is located under and behind the firepot on the left side, inside the convection air chamber. It automatically opens and closes the firepot floor so ashes can fall into the ash drawer.

2. Auto Clean Switch

The auto clean switch is located on top of the auto clean motor. It communicates to the control board when the firepot floor is open and when the auto clean system has completed its cycle and is back in the home (closed) position.

3. 12 Volt Battery Back-Up Cable

This is an optional accessory. It will plug into the appliance next to the power outlet located behind the left cast side panel. An icon will display on the wall control when the appliance has lost main power and is running on battery back-up.

4. Control Board

The control board is located on the lower left side of appliance, behind the left side panel and above the vacuum switch. The control board controls the functioning of the appliance and communicates with the wall control. The control board can only be opened by an authorized dealer.

5. Convection Blower

The convection blower is mounted at the bottom left rear of the appliance. The convection blower pushes heated air through the heat exchange system into the room.

6. Door Switch

The door switch is mounted on the right side of the firebox behind the door handle. It senses when the door is open and will display an icon on the wall control, and will turn off the auto clean system and feed motor for safety.

7. Exhaust Blower

The exhaust blower is mounted in the bottom right rear of appliance. The exhaust blower is designed to pull the exhaust from the appliance and push it out through the venting system.

8. Feed System

The feed system is located on the right side of the appliance and can be removed as an entire assembly. The assembly includes the feed motor, mounting bracket, bearing and feed spring (auger). The hollow feed spring (auger) pulls pellets up the feed tube from the hopper area and drops them down the feed chute into the firepot.

9. Firepot

The firepot is made of high quality ductile iron. The floor of the firepot automatically opens for cleaning and is operated by the auto-clean firepot system. The floor needs to return to a completely closed position or the appliance will not operate properly.

10. Fuses

There are three fuses. Two fuses are located on the inside of the control board. One fuse is AC and operates the igniter and the other fuse is DC and operates all of the other components. The third fuse is located in the power supply. A fuse will blow should a short occur and shut off power to the appliance. The fuses can only be serviced by an authorized dealer.

11. Heat Exchanger

The heat exchanger is located behind the baffle and it transfers heat from the exhaust system into the convection air chamber. Remove the cast iron baffle to access the heat exchanger.

12. Hopper Lid Switch

It is located on the right side inside the hopper. It senses whether the hopper lid is open and displays an icon on the wall control and will turn off the feed motor.

13. Igniter

The igniter is mounted on the base of the firepot. Combustion air travels over the red hot igniter creating super heated air that ignites the pellets.

14. Low Fuel Indicator

It is attached to the left side of the hopper. It senses the amount of fuel in the hopper and will display an icon on the wall control when the fuel level is low. When the fuel is low, it will not turn off feed.

15. Optical Switch

It is located on top of the feed system and communicates to the wall control that the auger is spinning or it has stopped.

16. Power Receptacle

The power receptacle is located on the left side of the appliance, behind the left cast side panel. Check the wall receptacle for 120 volt, 60 Hz (standard current). Make sure the outlet is grounded and has the correct polarity. A good

surge protector is recommended.

17. Power Supply

The power supply is located at the bottom left side of the appliance. It converts 120 volt AC current to 15 volt DC current to power the appliance.

18. Rotary Selector Switch

Located inside the control board and is pre-set at the factory to match the BTU output of your appliance. This switch can only be re-set by a qualified technician.

19. Overheat Sensor (Snap Disc)

The overheat sensor is mounted on the back of the drop tube in the center of the appliance and has a reset button. To access it remove the right side panel. If the fire tries to burn back into the feed system or push exhaust up the feed tube, this sensor will shut the entire system off. This sensor must be manually reset. Disconnect power before resetting.

20. Thermocouple - Firepot

The thermocouple is located on top of the firepot inside the thermocouple cover (ceramic protection tube). The thermocouple sends a millivolt signal to the control board telling the control board there is a fire in the firepot.

21. Thermocouple on Drop Tube

The thermocouple is located on the bottom of the drop tube on the right side and is attached with a wing nut. It turns the convection blower on and off, varies the speed of the convection blower and will shut down appliance if internal heat exceeds set temperature.

22. Vacuum Switch

The vacuum switch is located on the right side of the appliance under the feed motor behind right side panel and connects to the drop tube with a hose. This switch turns the feed system on when vacuum is present in the firebox. The vacuum switch is a safety device to shut off the feed motor if the exhaust or the heat exchanger system is dirty or plugged or if the firebox door is open.

23. Wall Control

The appliance is designed to run on a custom designed 3.3 volt DC thermostat wall control. It will not operate on any other wall control. Refer to the instructions supplied with the thermostat wall control.

22. Wiring Connections for Control Board

See Figure 32.1

23. Wiring Connection for Power Supply

See Figure 32.2.

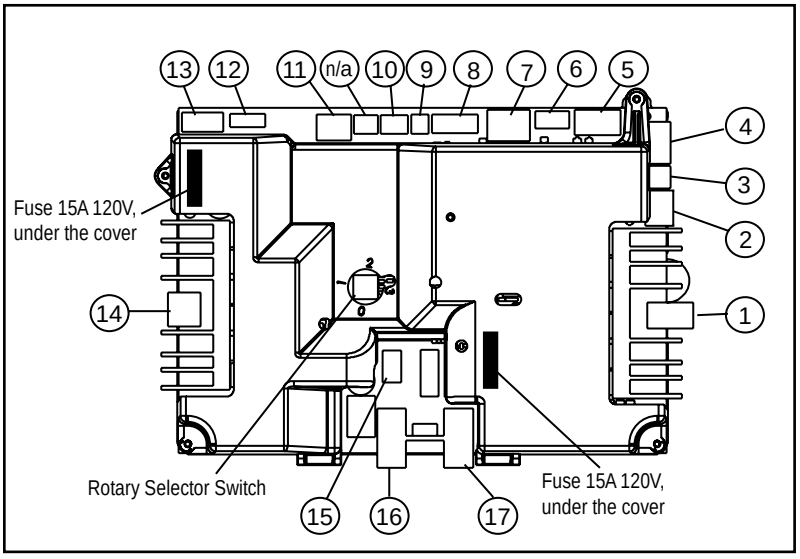


Figure 32.1

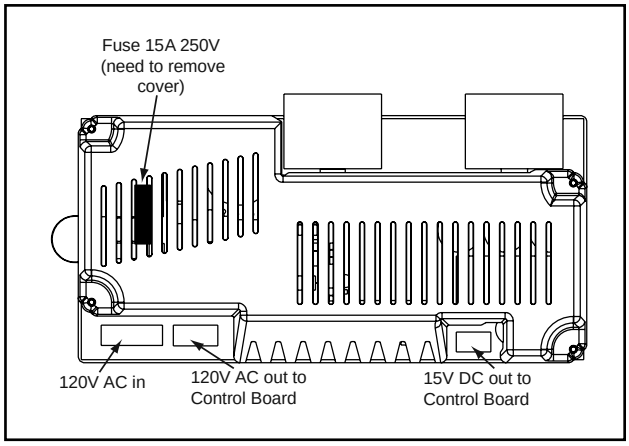


Figure 32.2

#	Description
1	Combustion Blower
2	Auto Clean System
3	Feed/Auger Motors
4	Hopper/Door Switches
5	Auger/Auto Clean/Vacuum Switches
6	Low Fuel

#	Description
7	Thermostat Wall Control
8	Combustion Blower (feedback)
9	Firepot Thermocouple
10	Drop Tube Thermocouple
n/a	Not Used
11	Convection Blower (feedback)
n/a	Not Used

#	Description
11	Convection Blower (feedback)
12	Igniter
13	AC Power In for Igniter
14	Convection Blower Power
15	Overheat Sensor (Snap Disc)
16	DC Power In from Power Supply
17	12 Volt Battery Back-up

B. Component Locations

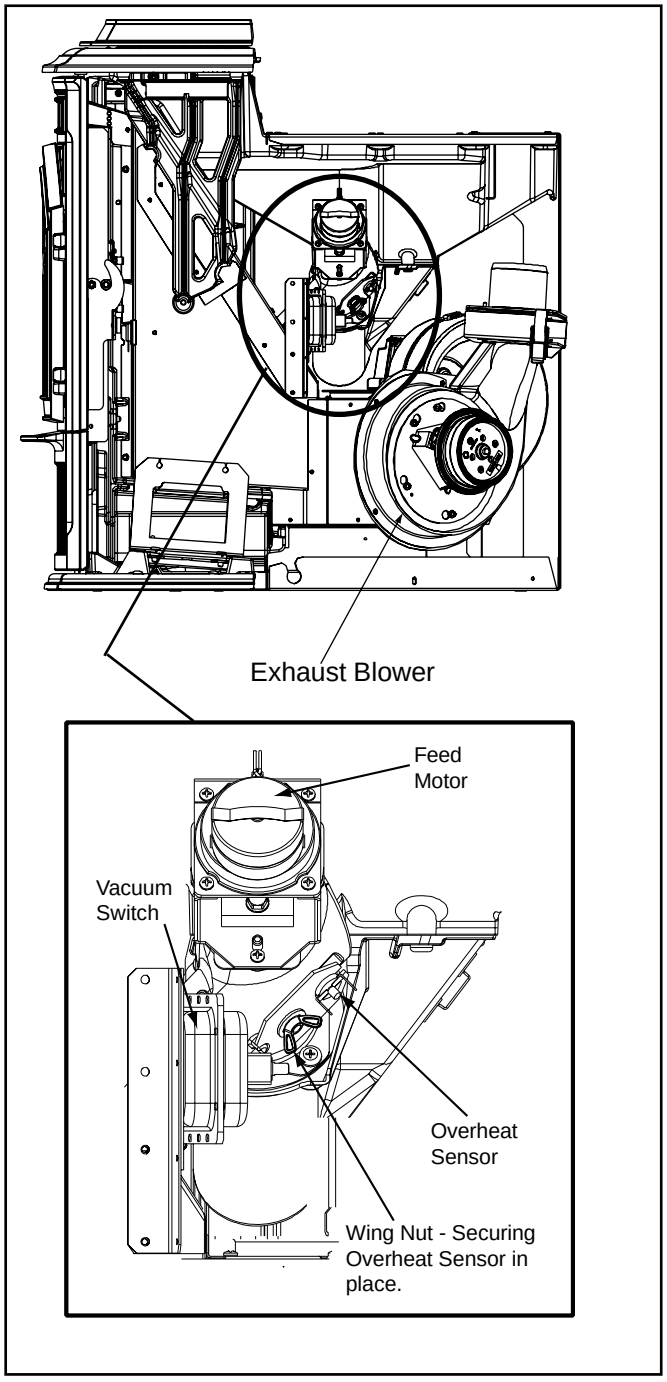


Figure 33.1 - Feed Motor, Vacuum Switch, Exhaust Blower, Overheat Sensor

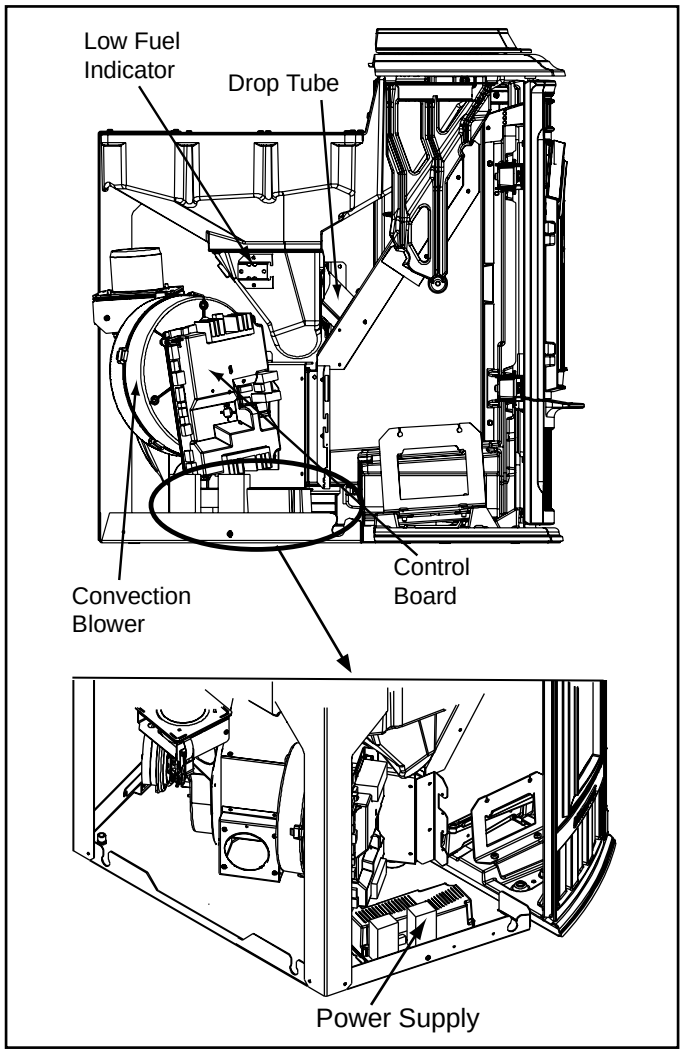


Figure 33.2 - Power Supply, Control Board, Convection Blower

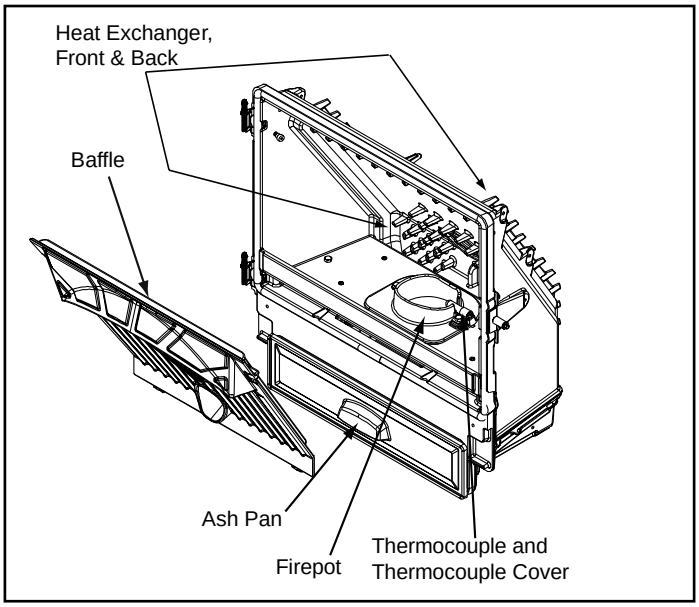
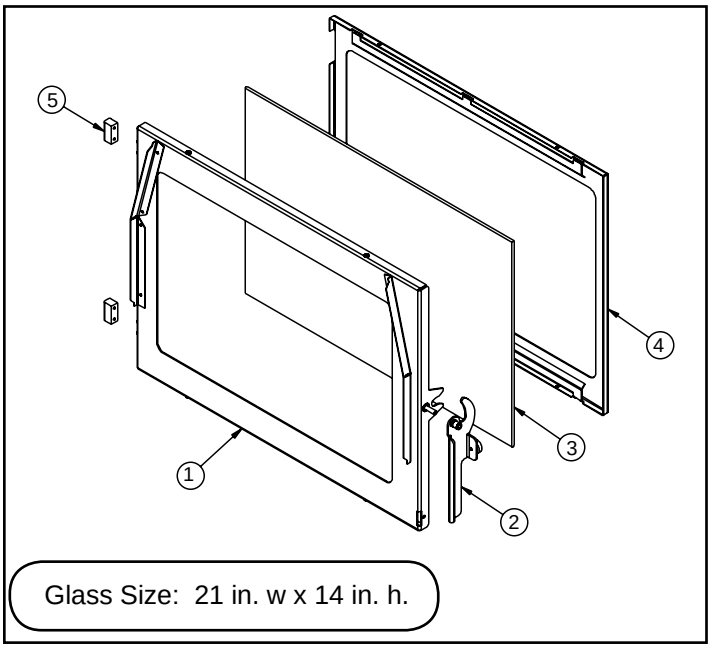


Figure 33.3 - Heat Exchanger, Baffle Ash Drawer, Firepot Thermocouple & Thermocouple Cover

C. Exploded Views



Item	Description	Part Number
1	Door Frame Assembly	7034-026
3	Glass Assembly	7034-007
4	Glass Retainer	7034-136
5	Hinge, Female	450-2910
2	Latch Assembly, Door	7034-039

Figure 34.1 - Door, Glass & Door Latch Assembly

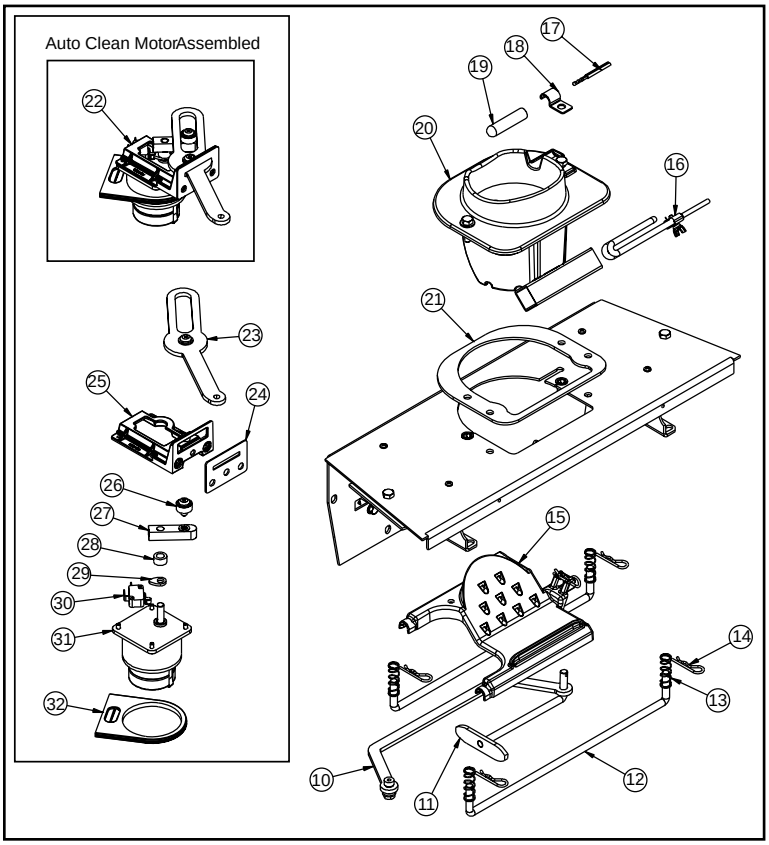


Figure 34.2 - Firepot & Auto Clean Systems

Item	Description	Part Number
23	Auto-Clean Lever	7034-158
10	Auto-Clean Link Arm	7034-176
22	Auto-Clean Motor Assembly	7034-020
32	Auto-Clean Motor Grommet	7034-188
25	Auto-Clean Motor Mount	7034-164
31	Auto-Clean Motor 12 Volt	7000-300
11	Auto-Clean Plow Weldment	7034-024
12	Auto-Clean Rail	7034-152
29	Auto-Clean Switch Cam	7034-187
26	Bearing	7000-333
18	Clip, Half	7000-321
14	Clip, Hitch Pin 3/32	7000-374
27	Crank Arm	7034-162
20	Firepot	7034-010
15	Firepot Bottom	7034-153
24	Gasket, Auto-Clean	7034-165
21	Gasket, Firepot	7034-190
16	Heating Element, 18” (Igniter)	7000-226
28	Spacer	7000-399
13	Spring	7000-299
30	Switch, Micro, Normally Open	7000-327
17	Thermocouple	7000-334
19	Thermocouple Cover	7034-186

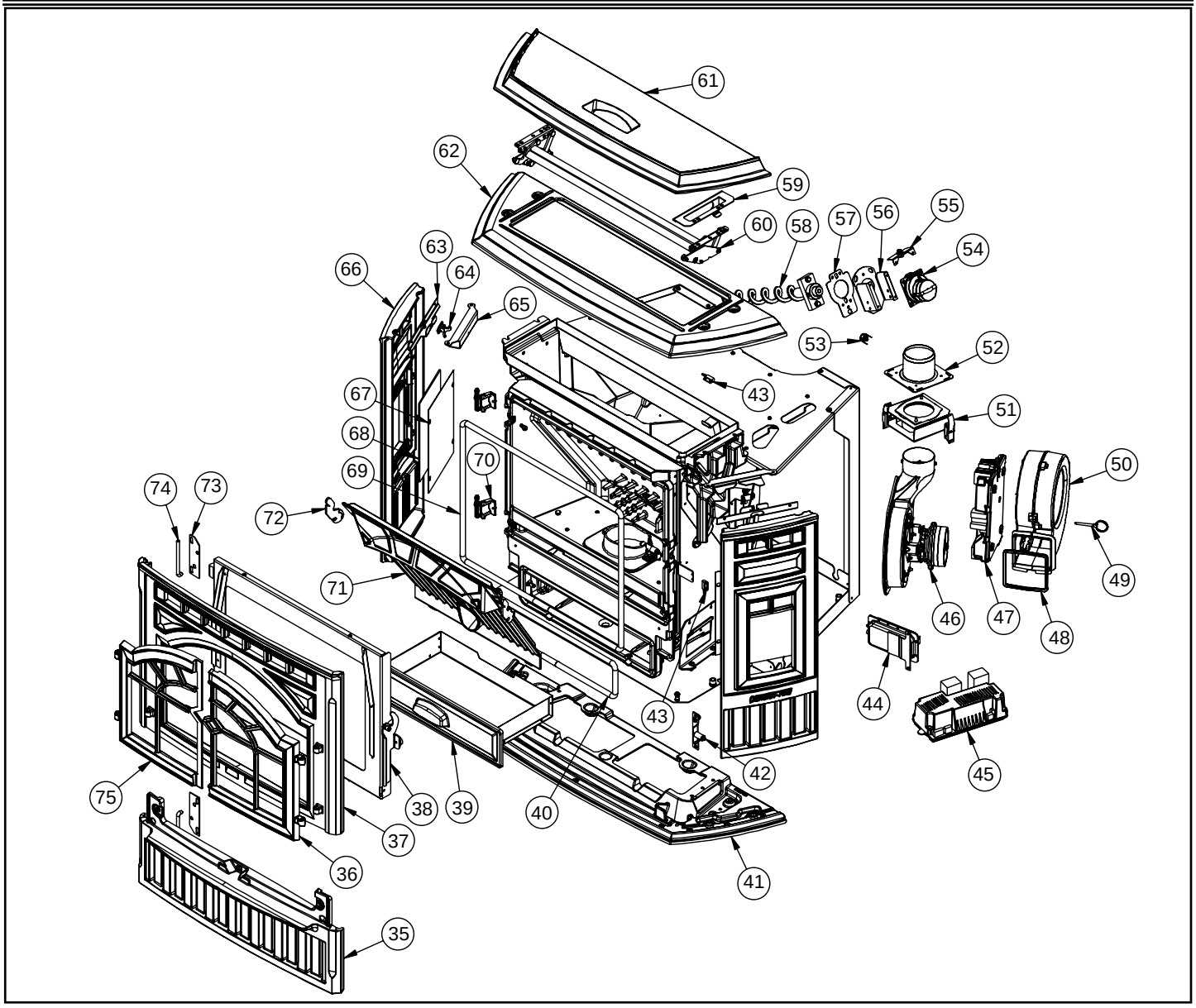


Figure 35.1

#	Description	#	Description	#	Description
35	Front, Lower	49	Detent Pin 3/16	63	Bracket, Catch
36	Door Assembly, Cast, Right	50	Blower, Convection	64	Elbow Catch
37	Front, Upper	51	Exhaust Transition	65	Clip, Catch
38	Door Assembly	52	Flue Collar	66	Side, Cast
39	Ash Pan	53	Overheat Sensor (Snap Disc #3)	67	Side Window Backer
40	Gasket, Ash Door	54	Feed Motor, 12 Volt	68	Glass, Side
41	Bottom Base	55	Switch, Optical	69	Gasket, (Rope), Door
42	Bracket, Latch Assembly	56	Bracket, Feed Motor	70	Hinge, Male
43	Switch, Magnetic	57	Gasket, Feed Motor	71	Baffle
44	Vacuum Switch	58	Feed Spring Assembly	72	Latch, Baffle
45	Power Supply	59	Bracket, Hopper Magnet	73	Hinge Pin Retainer
46	Blower, Combustion	60	Hinge, Top	74	Hinge Pin
47	Control Board	61	Hopper Lid	75	Door Assembly, Cast Left
48	Gasket, Blower, Convection	62	Top, Cast		

D. Service Parts and Accessories

IMPORTANT: THIS IS DATED INFORMATION. The most current information is located on the Quadra-Fire web site at *www.quadrafire.com*. When ordering, supply serial number and model to ensure correct service parts.

Item No.	Accessories	Part No.
	12 Volt Power Cord	12VCORD-AE
	Firescreen	SCR-7005
	Hearth Support	ZCSPT-MVI
	Log Set, 2 pieces	LOGS-60-AE
	Outside Air Kit	OAK-3
	Panel Set, Standard, 46-1/8” wide x 34-7/8” high, requires Cast Trim	SP-MTVS-CST
	Panel & Gold Trim Set, Standard, 50” wide x 33” high	SP-MTVS-GD
	Panel & Black Nickel Trim Set, Standard, 50” wide x 33” high	SP-MTVS-NB
	Trim Set, Cast, Matte Black	811-0930
	Trim Set, Powder Coat, Sienna Bronze	TR-CAST-CSB
	Trim Set, Powder Coat, Willow	TR-CAST-CWL
	Trim Set, Porcelain, Mahogany	811-0960

Item No.	Service Parts	Part No.
39	Ash Pan Assembly	7034-013
	Ash Pan Door	7034-133
	Auto-Clean Bottom Assembly	7034-021
23	Auto-Clean Lever	7034-158
10	Auto-Clean Link Arm	7034-176
22	Auto-Clean Motor Assembly	7034-020
32	Auto-Clean Motor Grommet	7034-188
11	Auto-Clean Plow Weldment	7034-024
12	Auto-Clean Rail	7034-152
29	Auto-Clean Switch Cam	7034-187
71	Baffle	7034-148
26	Bearing (1) for Auto Clean System	7000-333
50	Blower, Combustion	7034-033
46	Blower, Convection	7000-260
41	Bottom Base, Matte Black	7036-109MBK
41	Bottom Base, Porcelain Mahogany	7036-109PMH
41	Bottom Base, Powder Coat, Sienna Bronze	7036-109CSB
41	Bottom Base, Powder Coat, Willow	7036-109CWL
63	Bracket, Catch	7036-145
	Bracket, Control Board	7034-212
	Bracket, Door Switch	7034-215
56	Bracket, Feed Motor	7034-143
59	Bracket, Hopper Magnet	7036-149
	Bracket, Hopper Switch	7036-148

Item No.	Service Parts	Part No.
42	Bracket, Latch Assembly	7034-014
	Bracket, Overheat Sensor (Snap Disc)	7034-150
	Bracket, Vacuum Switch	7034-211
65	Clip, Catch	7036-146
18	Clip, Half, Holds Thermocouple in Place in the Firepot	7000-321
14	Clip, Hitch Pin 3/32, 10 Pack, for Auto Clean System	7000-374/10
	Clip, Receiver, Black	704-832
	Clip, Wire, 10 Pack	7000-400/10
	Component Pack, Mahogany (includes owner's manual, warranty card, consumer view card, DVD "How To", wall control & harness, power cord, (4) leveling nuts & bolts, pot scrapper, touch-up paint and label "If Fireplace Altered")	7036-021
	Component Pack, Matte Black (includes same as above)	7036-018
	Component Pack, Sienna Bronze, (includes same as above)	7036-019
	Component Pack, Willow, (includes same as above)	7036-020
	Control Board Assembly	SRV7000-323
49	Detent Pin for Convection Blower	7000-376
38	Door Assembly	7034-006
	Door, Air Deflector	7034-185
75	Door, Left, Matte Black	7005-100MBK
75	Door, Left, Porcelain Mahogany	7005-110PMH
75	Door, Left, Powder Coat, Sienna Bronze	7005-110CSB
75	Door, Left, Powder Coat, Willow	7005-110CWL
36	Door, Right, Matte Black	7005-109MBK
36	Door, Right, Porcelain Mahogany	7005-109PMH
36	Door, Right, Powder Coat, Sienna Bronze	7005-109CSB
36	Door, Right, Powder Coat, Willow	7005-109CWL
64	Elbow Catch	7000-393
51	Exhaust Transition Assembly	7036-013
	Face Plate	7034-124
58	Feed Spring Assembly	7034-004
54	Feed Motor, DC Current	7000-313
20	Firepot Assembly	7034-010
15	Firepot Bottom	7034-153
52	Flue Collar Assembly	7036-012
35	Front, Lower, Matte Black	7036-122MBK
35	Front, Lower, Porcelain, Mahogany	7036-122PMH
35	Front, Lower, Powder Coat, Sienna Bronze	7036-122CSB
35	Front, Lower, Powder Coat, Willow	7036-122CWL
37	Front, Upper, Lower, Matte Black	7036-105MBK
37	Front, Upper, Powder Coat, Sienna Bronze	7036-105CSB
37	Front, Upper, Powder Coat, Willow	7036-105CWL
37	Front,Upper, Porcelain, Mahogany	7036-105PMH
40	Gasket, (Rope), Ash Door	7034-178
69	Gasket, (Rope), Door	7034-177

Item No.	Service Parts	Part No.
24	Gasket, Auto Clean	7034-165
48	Gasket, Blower, Convection	7000-329
	Gasket, Blower, Combustion	7000-332
	Gasket, Exhaust	7034-109
	Gasket, Extruded Edge, 10 ft	7000-319/10
	Gasket, Extruded, 10 ft	7000-320/10
57	Gasket, Feed Motor	7034-144
21	Gasket, Firepot	7034-190
	Gasket, Glass, 1/8” x 1-1/4”, 10 ft.	7000-377/10
3	Glass Assembly for Door	7034-007
4	Glass Retainer	7034-136
68	Glass, Side, Assembly (Qty: 1)	414-5380
16	Heating Element, 18” (Igniter)	7000-226
	Heating Element, 18” (Igniter), 10 Pack	7000-226/10
60	Hinge Assembly, Top	7036-006
73	Hinge Pin Retainer, Front	7036-112
	Hinge Pin, Front	7036-110
70	Hinge, Male	7034-138
61	Hopper Lid, Matte Black	7036-107MBK
61	Hopper Lid, Porcelain, Mahogany	7036-107PMH
61	Hopper Lid, Powder Coat, Sienna Bronze	7036-107CSB
61	Hopper Lid, Powder Coat, Willow	7036-107CWL
72	Latch, Baffle	7034-149
2	Latch, Door Assembly	7034-039
	Magnet, Round	7000-140
	Motor, Gear, 12V	7000-300
	Paint, Touch-Up, Matte Black	7000-304
	Paint, Touch-Up, Porcelain Mahogany	855-1450
	Paint, Touch-Up, Powder Coat, Sienna Bronze	TOUCHUP-CSB
	Paint, Touch-Up, Powder Coat, Willow	TOUCHUP-CWL
45	Power Supply Assembly	SRV7000-324
	Rivet, Button Head, Gold	72171
	Rivnut Repair Kit, 1/4-20	RIVNUT-REPAIR
	Screw 1/4-20 x 3/8”, 24 Pack	7000-401/24
	Screw 1/4-20 x 5/8”, 24 Pack	7000-398/24
53	Sensor, Overheat (Snap Disc #3, Manual Re-set))	230-1290
	Sensor, Flue Level	7000-380
67	Side Window Backer	414-0280
66	Side, Matte Black (left & right are interchangeable)	7036-103MBK
66	Side, Porcelain, Mahogany, (left & right are interchangeable)	7036-103PMH
66	Side, Powder Coat, Sienna Bronze, (left & right are interchangeable)	7036-103CSB
66	Side, Powder Coat, Willow, (left & right are interchangeable)	7036-103CWL
	Spring, 4 Pack, for Auto Clean	7000-299/4
43	Switch, Magnetic	7000-375

Item No.	Service Parts	Part No.
30	Switch, Micro, Normally Open	7000-327
55	Switch, Optical	7034-038
17	Thermocouple	7000-334
19	Thermocouple Cover	7034-186
	Thermocouple Ring Mount	7000-381
	Thermostat Wire, 3 Conductor	7000-409
	Thermostat, Wall Control	7000-308
62	Top, Matte Black	7036-101MBK
62	Top, Porcelain, Mahogany	7036-101PMH
62	Top, Powder Coat, Sienna Bronze	7036-101CSB
62	Top, Powder Coat, Willow	7036-101CWL
44	Vacuum Switch	7000-166
	Wire Harness, Auger, Auto Clean, Vacuum Switch	7034-191
	Wire Harness, Battery Back-up	7034-202
	Wire Harness, Convection Blower	7034-219
	Wire Harness, Door, Hopper	7034-192
	Wire Harness, Igniter	7034-199
	Wire Harness, Overheat Sensor	7034-193
	Wire Harness, Power Out, AC Current	7034-220
	Wire Harness, Power Out, DC Current	7034-221
	Wire Harness, Power Supply	7034-201
	Wire Harness, Thermostat	7034-200

Item No.	Appliance	Part No.
	Mt. Vernon Insert, Advanced Energy (AE), Matte Black	MTVERNINSAE-MBK
	Mt. Vernon Insert, Advanced Energy (AE), Powder Coat, Sienna Bronze	MTVERNINSAE-CSB
	Mt. Vernon Insert, Advanced Energy (AE), Powder Coat, Willow	MTVERNINSAE-CWL
	Mt. Vernon Insert, Advanced Energy (AE), Porcelain, Mahogany	MTVERNINSAE-PMH

E. Service And Maintenance Log

Date of Service	Performed By	Description of Service

F. Homeowner's Notes

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F. Warranty Policy

LIMITED LIFETIME WARRANTY

The Hearth & Home Technologies limited Lifetime Warranty guarantees that the following components will work as designed for the lifetime of the stove or Hearth & Home Technologies will repair or replace them. These items include but are not limited to steel and cast iron components, all gas burners, gas logs, combustion chambers, heat exchanger systems, stainless steel firebox components, plating, doors, glass damaged by thermal breakage, steel baffle supports, steel and ceramic baffles and manifold tubes. Labor is for the first five years.

THREE YEAR WARRANTY

Our pellet firepots are covered under Hearth & Home Technologies three-year warranty program. Labor is for 3 years.

TWO YEAR WARRANTY

All electrical components such as but not limited to blowers, wiring, vacuum switches, speed controls, control boxes, thermodisc switches, pilot assembly, gas valves, thermostats and remotes are covered under Hearth & Home Technologies two-year warranty program. Effective April, 2005 igniters are also covered under the two year warranty. Labor is for two years.

ONE YEAR WARRANTY

Porcelain and Powder Coat finishes are warranted against manufacturer defects for one year. Labor to repair or replace these parts is covered for one year, reimbursed per our warranty service fee schedule.

CONDITIONS

This warranty is non-transferable and is made to the original retail purchaser only provided that the purchase was made through an authorized dealer of Hearth & Home Technologies. It must be installed and operated at all times in accordance with the Installation and Operating Instructions furnished with this product, as well as any applicable local and national codes. Any alteration, willful abuse, accident, or misuse of the product shall nullify this warranty.

Labor to repair or replace items covered under the limited Lifetime Warranty will be covered for the first five years per our warranty service fee reimbursement schedule. Parts covered under the limited Lifetime Warranty will be covered for the lifetime of the appliance up to a maximum of ten (10) years after Hearth & Home Technologies discontinues the model and two (2) years for optional accessories. Adjustments, regular maintenance, cleaning and temporary repairs do not qualify for a service call fee and will not be covered. The replacement of consumer replaceable items and installation of upgraded component parts do not quality for a service call fee, and will not be covered.

This limited Lifetime Warranty does not extend to or include surface finish on the appliance, door gasketing, glass gasketing, glass, firebrick, pellet logs, kaowool or other ceramic insulating materials. It does not cover installation or operational-related problems such as overfiring, use of corrosive driftwood, downdrafts or spillage caused by environmental conditions, nearby trees, buildings, hilltops, mountains, inadequate venting or ventilation, excessive offsets, or negative air pressures caused by mechanical systems such as furnaces, fans, clothes dryers, etc.

Any installation, construction, transportation, or other related costs or expenses arising from defective part(s), repair, replacement, etc., will not be covered by this warranty, nor will Hearth & Home Technologies assume responsibility for them. Further, Hearth & Home Technologies will not be responsible for any incidental, indirect, or consequential damages, except as results in damage to the interior or exterior of the building in which this appliance is installed. This limited Lifetime Warranty does not apply to the venting components, hearth components or other accessories used in conjunction with the installation of this product not manufactured by Hearth & Home Technologies

This warranty is void if the stove has been overfired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals, the stove is subjected to prolonged periods of dampness or condensation, or there is any damage to the stove or other components due to water or weather damage which is the result of, but not limited to, improper chimney or venting installation. Hearth & Home Technologies may, at its discretion, fully discharge all obligations with respect to this warranty by either repairing or replacing the unit, or refunding the wholesale price of the defective part(s).

This limited Lifetime Warranty is effective on all appliances sold after May 1, 2002 and supersedes any and all warranties currently in existence.

Policy 250-8620 Rev K

QUADRA-FIRE®

***CONTACT INFORMATION*:**

Hearth & Home Technologies
1445 North Highway
Colville, WA 99114
Division of HNI INDUSTRIES

Please contact your Quadra-Fire dealer with any questions or concerns.
For the number of your nearest Quadra-Fire dealer
log onto www.quadrafire.com

CAUTION

Do NOT discard this manual.

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.

Your Records for Model:

MT. VERNON Pellet Insert (AE)

WHERE PURCHASED:

SERIAL NUMBER: _____ _____

DATE PURCHASED: _____ _____

DATE INSTALLED: _____ _____

TELEPHONE: _____

This product may be covered by one or more of the following patents: (United States) 4593510, 4686807, 4766876, 4793322, 4811534, 5000162, 5016609, 5076254, 5113843, 5191877, 5218953, 5263471, 5328356, 5341794, 5347983, 5429495, 5452708, 5542407, 5601073, 5613487, 5647340, 5688568, 5762062, 5775408, 5890485, 5931661, 5941237, 5947112, 5996575, 6006743, 6019099, 6048195, 6053165, 6145502, 6170481, 6237588, 6296474, 6374822, 6413079, 6439226, 6484712, 6543698, 6550687, 6601579, 6672860, 6688302B2, 6715724B2, 6729551, 6736133, 6748940, 6748942, 6769426, 6774802, 6796302, 6840261, 6848441, 6863064, 6866205, 6869278, 6875012, 6880275, 6908039, 6919884, D320652, D445174, D462436; (Canada) 1297749, 2195264, 2225408, 2313972; (Australia) 780250, 780403, 1418504 or other U.S. and foreign patents pending.

HEARTH&HOME technologies